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DTIC

DATA ELEMENT DICTIONARY

OF

FIVE FEDERAL AGENCIES' SYSTEMS

FOR

PROCESSING OF TECHNICAL REPORT LITERATURE

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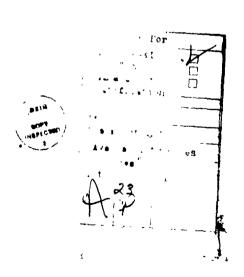We are pleased to supply this document in response to your request.

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*National government
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This data element dictionary contains all of the data elements used in the major systems for handling Federal government scientific and technical reports, including Department of Energy Technical Information Center (DOE/TIC), the Government Printing Office (GPO), the Department of Defense Technical Information Center (DTIC), the National Aeronautics and Space Administration Scientific and Technical Information Facility (NASA/STIF), and the National Technical Information Service (NTIS). All those elements, both substantive and

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20. "housekeeping" types, used in processing technical reports in each system are included in the compilation. Each record contains the element's definition, rules for use, the tags or indicators used internally, and those used external- ly for information interchange. Also included is a keyword/KWOC index to the combined list of data element names. The ~~Data Element Dictionary~~ (DED) is not only a useful tool to the participating agencies, but can also be of interest and value to users of the various systems.

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FOREWORD

This data element dictionary contains all of the data elements used in the major systems for handling Federal government scientific and technical reports; the systems involved are (in order of their appearance) those of the Department of Energy Technical Information Center (DOE/TIC), the Department of Defense Technical Information Center (DTIC), the Government Printing Office (GPO), the National Aeronautics and Space Administration Scientific and Technical Information Facility (NASA/STIF), and the National Technical Information Service (NTIS). All those elements, both substantive and "housekeeping" types, used in processing technical reports in each system are included in the compilation. Each record contains the element's definition, rules for use, the tags or indicators used internally, and those used externally for information interchange.

The work of selecting the data elements and collecting the information about them was accomplished by the individual agencies, in a project directed by Madeline M. Henderson, under contract to the NTIS. GPO offered the use of its computer facility for the compilation and for preparation of indexes to the individual dictionaries and to the combined lists. DTIC in turn prepared a keyword/KWOC index to the combined list of data element names.

The data element dictionary (DED) is a useful tool for the participating agencies, constituting current documentation of their systems, possibly in greater detail than heretofore available. The exercise of identifying and defining the elements in current use has been helpful to system managers and operating personnel. In addition, the DED will allow for comparison of data elements as they differ from one system to another, of the rules set forth for the same or similar elements in the different systems, and of the tags or indicators used to identify the elements in exchange procedures.

The DED can also be of interest and value to the users of the various systems described through the dictionary. This was one of the early reasons suggested by the Committee on Information Hangups in requesting consideration of the compilation of a data element dictionary. The compilation was seen as one step in investigating needs for better standards and protocols as a means for assisting in making the information systems more compatible. Users accessing the various systems, through online databases and also through printed indexes or catalogs, face a number of problems due to differences in the systems. The users can consult the DED to assist in developing search strategies for greater efficiency in trying to identify documents, and can compare the contents of the individual files in order to select the most pertinent sources.

However, this version of the DED is a first, preliminary draft, and represents the data elements used in the systems as of mid-1982. In order to expedite the availability of the document to users and other interested members of the community, the agencies decided to forgo even minor editing or updating. Readers are reminded of the preliminary nature of this dictionary, but also encouraged to use it for the files currently available.

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The four agencies whose systems are based on COSATI rules (DOE/TIC, DTIC, NASA/STIF, and NTIS) have agreed to examine the data elements common to their systems, which constitute the core elements needed to identify a report, and attempt to resolve the differences in their rules and conventions for those elements. Any measure of success in this regard will, of course, change some of the entries in the DED and will result in preparation of a new edition of the DED. However, the effort should result in recommendations for enhancing common features and contributing to more efficient and less costly information exchange for the agencies. It should also mean improved access and resource sharing for the user community.

CONTENTS

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* Dictionaries were numbered in sequence then indexes were numbered
separately, hence variable pattern of page numbers.

ELEMENT: TIC Item Identification Number

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The identification number used at the Technical Information Center (TIC) to follow an item through the processing cycle.

CONTENT: The cataloger enters a six-digit serial number for the first entry of the file; the input editor program increments the serial number by one for each succeeding entry. Two digits representing the year followed by two digits representing the month are added automatically to the beginning of the serial number later in the processing cycle, forming the ten-digit identification number.

INTERNAL TAG: 010

DESC: N/A

EXTERNAL TAG: 010

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, numerics

DATA SOURCE: Staff   Machine

NOTES: N/A

PAGE NUMBER 0003

ELEMENT: Type of Item

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The form of literature being cataloged.

CONTENT: A one-character uppercase alphabetic code, R, is entered for reports.

INTERNAL TAG: 020

DESC: N/A

EXTERNAL TAG: 020

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetic R

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Classification

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The security classification of a report, i.e., the determination of the extent of protection against unauthorized disclosure which the contents of the report require.

CONTENT: Uncl is entered by the input editor program. Other classification codes are selected from the table of HC standard codes by the cataloger when processing classified reports.

INTERNAL TAG: 030

DESC: N/A

EXTERNAL TAG: 030

DESC: N/A

CHARACTER SET: DOR/TIC extended ASCII, alphabetics

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Literary Indicator

SOURCE AGENCY: DOES

USE: If Available

DEFN: The literary characteristics of the contents of the document.

CONTENT: A one-character uppercase alphabetic code from the table of TIC standard codes is entered. Two or more codes may be entered without being separated, e.g., QN for legislative material having numerical data.

INTERNAL TAG: 040

DESC: N/A

EXTERNAL TAG: 040

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Personal Author (M)

SOURCE AGENCY: DOES

USE: If Available

DEFN: The person(s), or collaboration(s) associated with one or more institutions, responsible for the intellectual content of the report at the monographic level.

CONTENT: Information entered here is used for the duplicate entry check and for output; therefore, it must be entered in a standard format. Personal authors are entered as the last name, a comma, a space, an initial, a period, an initial, and a period, e.g., Cardoon, G.B. All diacritical marks are omitted; the German umlaut is converted to the vowel followed by an e. Additional authors are entered using the same format and separating them with a semicolon and a space. If there are multiple authors with different affiliations, the affiliation for the first author is entered also by entering one space after the last period in the first author input, a left parenthesis, the affiliation is included, a right parenthesis, a semicolon, and a space. Only abbreviations included in the RIC table of standard author affiliation abbreviations should be used when entering an affiliation. Names of collaborations are entered as they appear in the source document; multiple collaborations are separated by a semicolon and a space.

INTERNAL TAG: 070

DESC: N/A

EXTERNAL TAG: 070

DESC: N/A

CHARACTER SET: NOR/RIC expanded ASCII

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Primary Title (M)

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The distinguishing name of a report at the monographic level.

CONTENT: The title is entered in English in freeform; if the title is in another language, it must be translated and subscribed here. The subtitle is also entered here by entering a period at the end of the primary title, then three spaces the subtitle. The first word of the title or the subtitle is capitalized as are proper nouns and certain abbreviations; all other words are entered in lower case. A partial listing of capitalized abbreviations is included in DOE/TIC-4583, Energy Information Data Base: Guide to Abstracting and Indexing.

INTERNAL TAG: 110

DESC: N/A

EXTERNAL TAG: 110

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Primary Report Number

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The primary identification number assigned to a report.

CONTENT: The primary report number consists of a standarized prefix, usually alphabetic, followed by an en-dash and a distinct suffix, usually numeric. DOE/TIC-05, Report Number Codes used by DOE Technical Information Center in cataloging, Reports, lists the standard profixes. If the en-dash is unavailable as a data entry character, two adjacent hyphens are entered in its place.

INTERNAL TAG: 150

DESC: N/A

EXTERNAL TAG: 150

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Secondary Report Number

SOURCE AGENCY: DOES

USE: If Available

DEFN: Any number used to identify a publication which has an accepted report number format but which is not used as the primary report number by TIC.

CONTENT: The secondary report number is entered in accordance with the rules for entering the primary report number. Multiple secondary report numbers can be entered; the input editor program provides the semicolon and space separating them.

INTERNAL TAG: 210

DESC: N/A

EXTERNAL TAG: 210

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Contract Number

SOURCE AGENCY: DOES

USE: If Available

DEFN: An identifying number assigned to the contract under which work described in the report was conducted.

CONTENT: The word Contract and a space are entered by the input editor program; the contract number in one of the standard NIC formats is then entered by the cataloger.

INTERNAL TAG: 240

DEDC: N/A

PHYSICAL TAG: 240

DESC: N/A

CHARACTER SET: DOR/PIC extended ASCII, alphanumerics and hyphens

DATA SOURCE: Document

NOTES: N/A

ELEMENT: TRAC number

SOURCE AGENCY: DORS

USE: Mandatory

DEFN: The TIC/NTIS accession order number.

CONTENT: The number is entered as an A or a T, a two-digit calendar year, and a six-digit accession number. Later in the processing cycle, all T's are converted to A's. When the number is being output as the TIC/NTIS order number, the A is converted to DE.

INTERNAL TAG: 290

DESC: N/A

EXTERNAL TAG: 290

DESC: N/A

CHARACTER SET: DOR/TIC extended ASCII, alphanumerics

DATA SOURCE: Staff   Machine

NOTES: N/A

ELEMENT: Date

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The date the item was published as indicated on the title page or on the cover if there is no title page. If the item does not have a publication date, use one of the following in the order given: date submitted, date typed, date work completed.

CONTENT: The date is entered in one of the TIC standard date formats using the TIC standard abbreviations for the months and seasons.

INTERNAL TAG: 370

DESC: N/A

EXTERNAL TAG: 370

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics and spaces

DATA SOURCE: Modified   Standard

NOTES: N/A

PAGE NUMBER 0013

ELEMENT: Pages (N)

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The pagination of a report at the monographic level.

CONTENT: The pagination is entered in ifnoefers; if there is no pagination information available, a v is entered. A p following the pagination is entered automatically later in the processing cycle.

INTERNAL TAG: 390

DESC: N/A

EXTERNAL TAG: 390

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics

DATA SOURCE: Document   Staff

NOTES: N/A

PAGE NUMBER 0014

ELEMENT: Subdistribution Category

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The distribution of TIC microfiche copies of reports.

CONTENT: A two-digit code from the table of TIC standard codes is entered.

INTERNAL TAG: 400

DESC: N/A

EXTERNAL TAG: 400

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff   Standard

NOTES: N/A

PAGE NUMBER 0015

ELEMENT: Language

SOURCE AGENCY: DOES

USE: If Available

DEFN: The language used in a non-English language report or the language of the original publication for a translation.

CONTENT: Blank for English-language reports. For non-English language reports, a two-character alphabetic code from the table of TIC standard codes is entered by the cataloger; the input editor program replaces the code with the word in, a space, and the language corresponding to the code. If no code is appropriate, or if the item is published in two languages, the cataloger enters the word In, a space, and the language(s), e.g., in English and German.

INTERNAL TAG: 420

DESC: N/A

EXTERNAL TAG: 420

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics and spaces

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Availability-Price

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The source from which the report can be obtained.

CONTENT: A code from the table of TIC standard codes is entered by the cataloger; it is replaced with the appropriate text for output. Any additional information available, such as price, is then entered. If no entry from the table is appropriate, the data is entered in freeform. If there are additional availabilities, a period, two spaces, and the additional information in freeform are entered after the information for the first availability.

INTERNAL TAG: 430

DESC: N/A

EXTERNAL TAG: 430

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Drop Note

SOURCE AGENCY: DOES

USE: Optional

DEFN: Supplementary information not entered elsewhere in the cataloging record.

CONTENT: Information is entered in freeform.

INTERNAL TAG: 440

DESC: N/A

EXTERNAL TAG: 440

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Conference Title

SOURCE AGENCY: DOES

USE: If Available

DEFN: The official name of the conference.

CONTENT: If a conference report number is entered in the Primary Report Number or Secondary Report Number data elements, the title is entered automatically later in the processing cycle. If there is no such number, the conference title is entered in freeform by the cataloger.

INTERNAL TAG: 450

DESC: N/A

EXTERNAL TAG: 450

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: MachineS   tandard

NOTES: N/A

ELEMENT: Conference Place

SOURCE AGENCY: DOES

USE: Required

DEFN: The place where the conference was held.

CONTENT: If a conference report number is entered in the Primary Report Number or Secondary Report Number data elements, the
conference place will be entered automatically. If there is no such number, the place is entered for U.S. conference.
as the city, a comma, a space, the standard state abbreviation, a comma, a space and USA, and for conference held
outside the U.S. as the city, a comma, a space, and the country. State and country information must always be
included.

INTERNAL TAG: 460

DESC: N/A

EXTERNAL TAG: 460

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics, punctuation

DATA SOURCE: Machines   tandard

NOTES: N/A

ELEMENT: Conference Date

SOURCE AGENCY: DOES

USE: Required

DEFN: The date of the first day of a conference.

CONTENT: If a conference report number is entered in the Primary Report Number or Secondary Report Number data elements, the conference date will be entered automatically. If there is no such number, the date of the first day of the conference is entered, using the standard TIC formats and abbreviations described for the data element Date.

INTERNAL TAG: 470

DESC: N/A

EXTERNAL TAG: 470

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics and spaces

DATA SOURCE: MachineStandard

NOTES: N/A

ELEMENT: Distribution Category

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The TIC distribution, if any, of reports and translations.

CONTENT: A one-character alphabetic code from the table of standard TIC codes is entered by the cataloger; it is converted to the corresponding two- or three-character alphabetic code on output. A hyphen and the distribution category number are then entered by the cataloger.

INTERNAL TAG: 510

DESC: N/A

EXTERNAL TAG: 510

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics, punctuation

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Report Origin

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: An indication of whether or not a publication results from a DOE-sponsored project.

CONTENT: The data element contains a P for DOE-sponsored reports and an NP for reports not sponsored by DOE.

INTERNAL TAG: 520

DESC: N/A

EXTERNAL TAG: 520

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics N and P

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: File Selected For

SOURCE AGENCY: DOE

USE: Mandatory

DEFN: The DOE publication or data base in which the entry will be included.

CONTENT: A three-character alphabetic code selected from the table of TIC standard codes is entered. Multiple codes are
    separated by semicolons.

INTERNAL TAG: 530

DESC: N/A

EXTERNAL TAG: 530

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics and semicolon

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Subject Categories

SOURCE AGENCY: DOES

USE: Required

DEFN: Numbers assigned to broad subject areas and used to store, retrieve, and manipulate information according to those subject areas.

CONTENT: EDB- is entered automatically when appropriate codes have been entered in the File Selected for data element. The six-digit category number, selected from DOE/TIC-4584, Energy Information Data base: Energy Categories, is then entered; multiple category numbers are separated by semicolons. A semicolon is entered automatically at the end of the input string.

INTERNAL TAG: 540

DESC: N/A

EXTERNAL TAG: 540

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics, punctuation

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Source of Bibliographic Information

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The organization providing the information for the record.

CONTEXT: An alphabetic code from the table of standard FIC codes is entered.

INTERNAL TAG: 550

DESC: N/A

EXTERNAL TAG: 550

DESC: N/A

CHARACTER SET: DOR/FIC extended ASCII, alphabetics

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Country of Affiliation

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The country in which the research was conducted or the report was prepared.

CONTENT: A two-character alphabetic code from the table of standard TIC codes is entered.

INTERNAL TAG: 560

DESC: N/A

EXTERNAL TAG: 560

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, two alphabetics

DATA SOURCE: Staff   Standard

NOTES: N/A

PAGE NUMBER 0027

ELEMENT: Country of Publication

SOURCE AGENCY: DGIS

USE: Mandatory

DEFN: The country in which the report was published.

CONTENT: A two-character alphabetic code from the table of standard TIC codes is entered.

INTERNAL TAG: 570

PROC: N/A

EXTERNAL TAG: 570

DBUC: N/A

CHARACTER SET: DOR/TIC extended ASCII, two alphabetics

DATA SOURCE: Staff   Standard

NOTES: N/A

PAGE NUMBER 0028

ELEMENT: IRIS Temporary Record Number

SOURCE AGENCY: DOES

USE: Required

DEFN: An accession number assigned to entries which will be sent to the International Nuclear Information System (INIS) and inclusion in INIS MagBinder.

CONTENT: The word US, a two-numeric calendar year designation, and a five-numeric accession number, e.g., US2255704, are entered automatically during the processing cycle in those entries which will be sent to INIS.

INTERNAL TAG: 590

DESC: N/A

EXTERNAL TAG: 590

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumeric

DATA SOURCE: Machine

NOTES: N/A

ELEMENT: IRIS Type

SOURCE AGENCY: DOES

USE: Required

DEFN: A type of item code for entries to be sent to IRIS.

CONTENT: An R is entered for report entries which will be sent to IRIS.

INTERNAL TAG: 600

DESC: N/A

EXTERNAL TAG: 600

DESC: N/A

CHARACTER SET: DOS/PIC extended ASCII, alphabetic R

DATA SOURCE: Staff   Standard

NOTES: Entries sent to IRIS will have two type of item codes.

ELEMENT: IRIS Categories

SOURCE AGENCY: DOES

USE: Required

DEFN: The IRIS subject categories used to classify reports sent to IRIS into broad subject categories.

CONTENT: The category is entered automatically based on the codes entered in the Subject Categories data element. This code consists of one uppercase alphabetic followed by two numerics. Multiple codes are separated by semicolons.

INTERNAL TAG: 610

DESC: N/A

EXTERNAL TAG: 610

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphanumerics, semicolon

DATA SOURCE: Machines   Standard

NOTES: N/A

PAGE NUMBER 0031

ELEMENT: Title Augmentation

SOURCE AGENCY: DOES

USE: Optional

DEFN: Supplementary title information provided by the abstractor to enrich the subject indexing for a report.

CONTENT: The data is entered as for the Primary Title (N) data element.

INTERNAL TAG: 620

DESC: N/A

EXTERNAL TAG: 620

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: NTIS Note

SOURCE AGENCY: DOES

USE: Required

DEFN: An indication of which items will be sent to the National Technical Information Service (NTIS), Springfield, Virginia, for public sale.

CONTENT: The code NTS is entered automatically based on data included in the Report Origin and file selected for data statement.

INTERNAL TAG: 640

DESC: N/A

EXTERNAL TAG: 640

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, alphabetics N, T, and S

DATA SOURCE: Machine   Standard

NOTES: N/A

ELEMENT: Corporate Code (N)

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: The numerical code assigned by TIC or INIS for corporate authors at the monographic level.

CONTENT: The corporate code is entered as three numeric characters, a space, and four numeric characters. It is selected from codes included in DOE/TIC-4585, Energy Information Data Base: Corporate Author Entries.

INTERNAL TAG: 700

DESC: N/A

EXTERNAL TAG: 700

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII, seven numerics and a space

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Corporate Author (M)

SOURCE AGENCY: DOBS

USE: Required

DEFN: The name of the corporate author of the report at the monographic level.

CONTENT: The name of the corporate author is entered automatically during output in freeform format based on the code entered in the Corporate Code (M) data element.

INTERNAL TAG: 710

DESC: N/A

EXTERNAL TAG: 710

DESC: N/A

CHARACTER SET: DOB/TIC extended ASCII

DATA SOURCE: Machines   standard

NOTES: N/A

ELEMENT: TIC Utilization

SOURCE AGENCY: DORS

USE: Required

DEFN: The accession or abstract number for each data base or publication in which the entry appears.

CONTENT: The code is entered automatically as a three alphabetic code identifying the publication or data base, a hyphen, a two-numeric year or volume designation, a colon, and a six-numeric abstract or accession number. Justify Code. set separated by a semicolon.

INTERNAL TAG: 750

DESC: N/A

EXTERNAL TAG: 750

DESC: N/A

CHARACTER SET: DOR/TIC extended ASCII, alphanumerics, punctuation

DATA SOURCE: Machine

NOTES: N/A

ELEMENT: Subject Descriptors, Splits

SOURCE AGENCY: DOES

USE: If Available

DEFN: A group of subject terms which are logically related to each other; there may be several splits for each entry.

CONTENT: Descriptors are entered in lowercase and separated by semicolons. If a descriptor is composed of two or more words, spaces separate the words within the descriptor, e.g., differential equations. Descriptors having a tag, or acid, are entered as the descriptor, a colon, the tag, and a semicolon; multiple tags are separated by commas, e.g., chemical analysis:q2,q3;. Descriptors are selected from DOE/TIC-7000, Energy Data Base: Subject Thesaurus; terms are coded by the abstractor. The cataloger enters each group of descriptors in separate data elements from 802 through 804, i.e., 802, 803, 804; later in the processing cycle, these data element numbers are all converted to 802 and thus there may be multiple 802 data elements in the entry when it is output.

INTERNAL TAG: 8nn

DESC: N/A

EXTERNAL TAG: 802

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff   Standard

NOTES: N/A

PAGE NUMBER 0037

ELEMENT: Subject Descriptor Count

SOURCE AGENCY: DOES

USE: Required

DEFN: A count of the number of descriptors in the Subject Descriptors, General, and Subject Descriptors, Special, data elements.

CONTENT: Four numerics are entered automatically.

INTERNAL TAG: 800

DESC: N/A

EXTERNAL TAG: 800

DESC: N/A

CHARACTER SET: DOR/TIC extended ASCII, four numerics

DATA SOURCE: Machine

NOTES: N/A

ELEMENT: Subject Descriptors, General

SOURCE AGENCY: DOES

USE: I1 Available

DEFN: A subject term applying to the entire entry.

CONTENT: Descriptors are entered in lowercase and separated by semicolons. If a descriptor is composed of two or more words, spaces separate the words within the descriptor, e.g., differential equations. Descriptors having a tag, or others, are entered as the descriptor, a colon, the tag, and a semicolon; multiple tags are separated by commas, e.g., chemical analysis:q2,q3;. Descriptors are selected from DoE/TIC-7000, Energy Data Base: Subject Thesaurus; the tags are derived by the abstractor.

INTERNAL TAG: 801

DESC: N/A

EXTERNAL TAG: 802

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Descriptor Upposted Terms

SOURCE AGENCY: DOES

USE: Required

DEFN: The broader terms related to the descriptors entered in the Subject Descriptors, General, and Subject Descriptors, Splits, data elements.

CONTENT: Upposted terms are entered automatically according to the relationships given in DOE/TIC-7000, Energy Data Base Subject Thesurus.

INTERNAL TAG: 803

DESC: N/A

EXTERNAL TAG: 803

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Machine Standard

NOTES: N/A

ELEMENT: ISIS Proposed Descriptors

SOURCE AGENCY: DOES

USE: Required

DEFS: Subject terms not presently included in IABS-IBIS-13, ISIS: Thesaurus, which are being proposed for inclusion in that thesaurus by TIC.

CONTENT: Descriptors which are not found as accepted terms in the ISIS Thesaurus during a matching check of the Subject Descriptors, General, and Subject Descriptors, Splits, data elements, and which TIC recommends for inclusion in the ISIS Thesaurus, are entered here automatically. These terms are also included in the Subject Descriptors, General, and Subject Descriptors, Splits, data elements; this data element is not counted for the Subject Descriptor Count data element.

INTERNAL TAG: 900

DESC: N/A

EXTERNAL TAG: 810

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Machines   Standard

NOTES: N/A

ELEMENT: Abstract

SOURCE AGENCY: DOES

USE: Mandatory

DEFN: A clear and concise statement of the contents of the document.

CONTENT: Data is entered in freeform with a maximum of 4,000 characters. If no abstract is entered, the input editor program inserts the word None.

INTERNAL TAG: 950

DESC: N/A

EXTERNAL TAG: 950

DESC: N/A

CHARACTER SET: DOE/TIC extended ASCII

DATA SOURCE: Staff   Machine

NOTES: N/A

COOPERATIVE DATA ELEMENT DICTIONARY - DORS INDEX BY EXTERNAL TAG

EXTERNAL TAG

DATA ELEMENT NAME

		SUBMITTING AGENCY	PAGE NUMBER
001	File Number		
010	TIC Item Identification Number	DOES	0003
020	Type of Item	DOES	0004
030	Classification	DOES	0005
040	Literary Indicator	DOES	0004
070	Personal Author (M)	DOES	0005
110	Primary Title (M)	DOES	0006
150	Primary Report Number	DOES	0007
210	Secondary Report Number	DOES	0008
240	Contract Number	DOES	0009
290	TRAC number	DOES	0010
370	Date	DOES	0011
390	Pages (M)	DOES	0012
400	Subdistribution Category	DOES	0013
420	Language	DOES	0014
430	Availability-Price	DOES	0015
440	Drop Note	DOES	0016
450	Conference Title	DOES	0017
460	Conference Place	DOES	0018
470	Conference Date	DOES	0019
510	Distribution Category	DOES	0020
520	Report Origin	DOES	0021
530	File Selected For	DOES	0022
540	Subject Categories	DOES	0023
550	Source of Bibliographic Information	DOES	0024
560	Country of Affiliation	DOES	0025
570	Country of Publication	DOES	0026
590	INIS Temporary Record Number	DOES	0027
600	INIS Type	DOES	0028
610	INIS Categories	DOES	0029
620	Title Augmentation	DOES	0030
640	BTIB Note	DOES	0031
700	Corporate Code (M)	DOES	0032
710	Corporate Author (M)	DOES	0033
750	TIC Utilization	DOES	0034
800	Subject Descriptor Count	DOES	0035
801	Subject Descriptors, General	DOES	0036
802	Subject Descriptors, Splits	DOES	0037
803	Descriptor Upposted Terms	DOES	0038
810	INIS Proposed Descriptors	DOES	0039
950	Abstract	DOES	0040
		DOES	0041

COOPERATIVE DATA ELEMENT DICTIONARY - DOES INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
001	File Number	DOES	0001
010	TIC Item Identification Number	DOES	0002
020	Type of Item	DOES	0003
030	Classification	DOES	0004
040	Literary Indicator	DOES	0005
070	Personal Author (N)	DOES	0306
110	Primary Title (N)	DOES	0007
150	Primary Report Number	DOES	0300
210	Secondary Report Number	DOES	0009
240	Contract Number	DOES	0010
290	TRAC number	DOES	0011
370	Date	DOES	0012
390	Pages (N)	DOES	0013
400	Subdistribution Category	DOES	0014
420	Language	DOES	0015
430	Availability-Price	DOES	0016
440	Drop Note	DOES	0017
450	Conference Title	DOES	0018
460	Conference Place	DOES	0019
470	Conference Date	DOES	0020
510	Distribution Category	DOES	0021
520	Report Origin	DOES	0022
530	File Selected For	DOES	0023
540	Subject Categories	DOES	0024
550	Source of Bibliographic Information	DOES	0025
560	Country of Affiliation	DOES	0026
570	Country of Publication	DOES	0027
590	INIS Temporary Record Number	DOES	0028
600	INIS Type	DOES	0029
610	INIS Categories	DOES	0030
620	Title Augmentation	DOES	0031
640	NTIS Note	DOES	0032
700	Corporate Code (N)	DOES	0033
710	Corporate Author (N)	DOES	0034
750	TIC Utilization	DOES	0035
8nn	Subject Descriptors, Splits	DOES	0036
800	Subject Descriptor Count	DOES	0037
801	Subject Descriptors, General	DOES	0038
803	Descriptor Upposted Terms	DOES	0039
900	INIS Proposed Descriptors	DOES	0040
950	Abstract	DOES	0041

COOPERATIVE DATA ELEMENT DICTIONARY - DOES INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
Abstract	DOES	0041
Availability-Price	DOES	0016
Classification	DOES	0004
Conference Date	DOES	0020
Conference Place	DOES	0019
Conference Title	DOES	0018
Contract Number	DOES	0010
Corporate Author (M)	DOES	0030
Corporate Code (M)	DOES	0033
Country of Affiliation	DOES	0026
Country of Publication	DOES	0027
Date	DOES	0012
Descriptor Upposted Terms	DOES	0039
Distribution Category	DOES	0021
Drop Note	DOES	0017
File Number	DOES	0001
File Selected For	DOES	0023
INIS Categories	DOES	0030
INIS Proposed Descriptors	DOES	0040
INIS Temporary Record Number	DOES	0028
INIS Type	DOES	0029
Language	DOES	0015
Literary Indicator	DOES	0005
NTIS Note	DOES	0032
Pages (M)	DOES	0013
Personal Author (M)	DOES	0006
Primary Report Number	DOES	0008
Primary Title (M)	DOES	0007
Report Origin	DOES	0022
Secondary Report Number	DOES	0009
Source of Bibliographic Information	DOES	0025
Subdistribution Category	DOES	0014
Subject Categories	DOES	0024
Subject Descriptor Count	DOES	0037
Subject Descriptors, General	DOES	0038
Subject Descriptors, Splits	DOES	0036
Title Augmentation	DOES	0031
Type of Item	DOES	0003
TIC Item Identification Number	DOES	0002
TIC Utilization	DOES	0035
TRAC number	DOES	0011

ELEMENT: Accession Number

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The accession number is a machine processing control number assigned uniquely to a technical report as soon as it has been determined by DTIC accessioning procedures that it is not a duplicate report.

CONTENT: The AD number is a 9 character datum composed of 3 alphas followed by 6 numerics. The first two alphas are "AD", the third alpha is a letter code to designate additional intelligence, and the following numerics constitute the sequence number assigned to the document, e.g., ADA000233.

INTERNAL TAG: 01

DESC: N/A

EXTERNAL TAG: 001

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: The current meaning of AD is "accessioned document". A degree of intelligence is structured into the AD number at its initial assignment, to designate classified or unclassified reports and limited or unlimited distribution. Historically, these designations have changed periodically since the inception of AD number assignment. Display of the accession number may include the letter "L" as the 10th, last character, designating a limited distribution report, but currently this suffix item is machine program-generated from Field 33, DISTRIBUTION/AVAILABILITY CODES. Machine storage of the AD number precludes retention of the AD designation for machine manipulation. Plqout't display re-incorporates the AD designation.

ELEMENT: DoD-modified COSATI Subject Field and Group Codes

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The subject fields and groups identify the general area of science and/or technology that is covered by the report.

CONTENT: Input: 6 numerics, first and fourth are zeros. Display: numeric with leading zeros removed. These codes are taken from the DoD-modified COSATI Subject Categories. For unclassified/unlimited documents three or four codes generally are assigned per document; often more codes are assigned to classified documents and the form 41 has space for up to 6 entries.

INTERNAL TAG: 02

DESC: N/A

EXTERNAL TAG: 350

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff   Standard

NOTES: The fields and groups are assigned by DTIC subject analysts. TAB is arranged by fields and groups. The first field/group assigned to a document determines the placement of the report's citation in TAB.

ELEMENT: Machine Record Classification

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: In indicating the highest classification of an entry in a machine record, acts as the classification of that record.

CONTENT: Single alpha entry of classification codes S, C, I, or U. Based on the highest classification appearing in any of Field 8 (Title Classification), Field 24 (Descriptor Classification), Field 26 (Identifiers and Open-ended T...), Classification), or Field 28 (Abstract Classification).

INTERNAL TAG: 03

DESC: N/A

EXTERNAL TAG: 800

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: Machine   Standard

NOTES: N/A

ELEMENT: NTIS Price

SOURCE AGENCY: DTIC

USE: N/A

DEFN: This field entry was established to display hardcopy / papercopy and microform prices of unclassified, unlimited
     distribution reports approved for public release through NTIS.

CONTENT: This information is not entered in DTIC data storage.

INTERNAL TAG: 04

DESC: N/A

EXTERNAL TAG: 530

DESC: N/A

CHARACTER SET: N/A

DATA SOURCE: N/A

NOTES: This information is not entered in DTIC data storage. NTIS generates their price entries automatically by computer
     based on the page count in Field 12 (Pagination) for their computer system, only.

ELEMENT: Corporate Author

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The name of the corporate organization that prepares the report, or is editorially or contractually responsible for the preparation of the report. The corporate author serves as a major index point facilitating the identification of a document or record.

CONTENT: Establishment of a corporate author follows COSATI standardized cataloging procedure and structure. Corporate author Field 5 is generated by the appropriate corporate author code entered in Field 35 (Source Code). The primary entry in the corporate author / source header file is made completely in caps and without punctuation, with a maximum of 3 lines with 40, 38, 38 character limitation consecutively. Special symbols (dashes, slashes, parentheses, etc.) pertaining to organization structure or name are included.

INTERNAL TAG: 05

DESC: N/A

EXTERNAL TAG: 300

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine   Standard

NOTES: N/A

ELEMENT: Unclassified Title

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: For the purposes of technical report data processing, the title is the name of the work, including the subtitle and alternative title when cited; and generally excluding descriptive notation which may be entered in the Descriptive Note , Field 9, and an overall project or report series name which may be entered in the Supplementary Note, Field 21.

CONTENT: Narrative entry. Up to 450 alphanumeric and special characters. Title variations and implications are handled according to standard descriptive cataloging procedures.

INTERNAL TAG: 06

DESC: N/A

EXTERNAL TAG: 220

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: On classified reports, when a title is classified it is entered in Field 7 (Classified Title) for security application data handling.

ELEMENT: Classified Title

SOURCE AGENCY: DTIC

USE: If available

DEFN: The DoD designated original classification authority determines that a title is classified if the title's narrative content reflects or reveals the classified information content of the document, particularly when two or more concepts are sensitively associated according to the DoD Security Classification Guide issued covering the classification of the information in the report.

CONTENT: Narrative entry, up to 450 alphanumeric and special characters.

INTERNAL TAG: 07

DESC: N/A

EXTERNAL TAG: 240

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: If there is only a Classified Title on the document, the Information Analysis Branch supplies an unclassified version for Field 30 (Index Annotation) entry.

ELEMENT: Title Classification

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Indicates the classification of the document title. If there are both an unclassified title and classified title, the highest degree of title classification is entered.

CONTENT: Single alpha codes: u (unclassified), r (restricted), c (confidential), or s (secret).

INTERNAL TAG: 08

DESC: N/A

EXTERNAL TAG: 230

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: Document   Standard

NOTES: In the case of a classified title, the title classification indicates the degree of protection required against unauthorized disclosure of the title content, determined by the document's original classification authority in the interest of national defense.

ELEMENT: Descriptive Note

SOURCE AGENCY: DTIC

USE: If available

DEFN: A descriptive note is a phrase which denotes the type of report, but does not repeat the title. The note may be documentary in nature, e.g., Final, Annual, Interim, et al., or it may indicate the serialization of a set of reports, e.g., Rept. no. 8, Progress rept. no. 2, Quarterly rept. no. 3, Final rept.

CONTENT: Narrative entry, up to 120 alphanumeric and special characters.

INTERNAL TAG: 09

DESC: N/A

EXTERNAL TAG: 540

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: According to the COSATI standard, this data item is referred to as a Descriptive Note or Subtitle, without subject content. In addition to a standardized narrative entry in this field, Final, Annual, Summary of numeric serialization are coded in Field 38 (Serial Number / Source Series).

ELEMENT: Personal Author

SOURCE AGENCY: DTIC

USE: If available

DEFN: The person credited with the preparation, writing, or composition of the content of the report.

CONTENT: Alphanumeric and special characters, up to 5 entries, with 60 characters for the first name and middle name or initial, and 60 characters for the last name. Last name is preceded with a / indicator. The names of the personal authors are entered as they are recorded on or in the document with an attempt to enter as complete a name as possible. When a personal author is not definitively indicated on a document, an ascertainment is made of the proper entry in this field based on standard cataloging procedure. Suffixes (Jr., Sr., III) are included in the entry, but titles, degrees, ranks and honorifics are omitted.

INTERNAL TAG: 10

DESC: N/A

EXTERNAL TAG: 200

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: The various DTIC sub-systems include both direct and indirect name display requirements. The printed file entry correlate with the name as originally intended, that is James L. Jones.

ELEMENT: Report date

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The date of publication. If not definitively displayed on the document, the date is determined through standard cataloging procedures.

CONTENT: Up to 7 alphanumeric characters with the machine edit eliminating spaces (up to 4); Entry of 1 or 2 numeric day, 3 alphabetic character month, 2 numeric year, e.g., 3 Jan 77. Date entry may be made without day. If year is used alone, 4 numeric entry, e.g., 1979.

INTERNAL TAG: 11

DESC: N/A

EXTERNAL TAG: 480

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: N/A

PAGE NUMBER 0053

ELEMENT: Pagination

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Pagination is the total number of pages in a document regardless of numeration. Page count includes all pages with print; the cover, diagrams, charts, illustrations, maps, photos, foldouts, pocket material, etc. At DTIC oversize pages such as foldouts, pocket maps, charts, etc., are counted for the number of frames needed to microfiche them. Blank pages including those so designated are not counted. Pagination indicates the length or size of a document, corresponding to the number of frames necessary for microfiche reproduction.

CONTENT: Up to 4 numerics, with a following "p." machine-generated.

INTERNAL TAG: 12

DESC: N/A

EXTERNAL TAG: 520

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Source Series / Report number

SOURCE AGENCY: DTIC

USE: if available

DEFN: The organization, whether government, military or contractor, that performs the research recorded in the report assigns
its unique report series number (or numbers, according to the organization's needs) to the document.

CONTENT: Up to two entries, separated by a comma, each having up to 35 alphanumeric and special characters. In the absence
character limitations depending on system programs and display requirements. The alpha/numeric and special components
of a report number is variational at the discretion of the organization. Generally the organization's records parallel
the actual report number, but not in all cases.

INTERNAL TAG: 1a

DESC: N/A

EXTERNAL TAG: 17o

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: The report numbers of monitoring or sponsoring military and government organizations assigned in addition to the
performing organization's report number(s) are entered in Fields 18 and 19, Monitor Acronym and Series.

ELEMENT: Contract or Grant Number

SOURCE AGENCY: DTIC

USE: If available

DEFN: This entry is the contract, grant or order funding that identifies the financial support of the research results recorded in the technical report. The contract/grant entries in this field are both DoD and other government agencies, but DoD entries take precedence.

CONTENT: An entry of 35 alphanumeric and special characters, with up to two entries, separated by a comma. The alpha/numeric and spacing composition follows the usage of the agency. DoD numbers have FAR prescribed structure, but with order structures appearing from time to time and with other agencies' numbers, there is a wide variation in character layout and spacing. FAR refers to DoD numbers as Procurement Instrument Identification (PII) numbers.

INTERNAL TAG: 15

DESC: N/A

EXTERNAL TAG: 320

DESC: 320 is used by DTIS for Contract/Order number and 330 is used by DTIS for Grant Number.

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Contract or Grant Number

SOURCE AGENCY: DTIC

USE: If available

DEFN: This entry is the contract, grant or order funding that identifies the financial support of the research activity recorded in the technical report. The contract/grant entries in this field are both DoD and other government i chew, but DoD entries take precedence.

CONTENT: An entry of 35 alphanumeric and special characters, with up to two entries, separated by a comma. The input/output spacing composition follows the usage of the agency. DoD numbers have FAR prescribed structure, but with other structures appearing from time to time and with other agencies' numbers, there is a wide variation in character length and spacing. FAR refers to DoD numbers as Procurement Instrument Identification (PII) numbers.

INTERNAL TAG: 15

DESC: N/A

EXTERNAL TAG: 330

DESC: 320 is used by NTIS for Contract/Order number and 330 is used by NTIS for Grant Number.

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: RDT&E Project Number

SOURCE AGENCY: DTIC

USE: If available

DEFN: Project numbers generated by the DoD Five Year Defense Program (FYDP) Program Element 6 (Research and Development) RDT&E funding, for correlation with same entries in the 1498 and 1634 data systems.

CONTENT: 2 project number entries, separated by comas, for a total of 73 alphanumeric and special characters. A project number character length is variable depending on the DoD agency or military service number structure. Additional project numbers are entered temporarily in Field 25 for eventual recapture, beginning with designation PN (project number).

INTERNAL TAG: 16

DESC: N/A

EXTERNAL TAG: 200

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: RDT&E Task Number

SOURCE AGENCY: DTIC

USE: If available

DEFN: Task numbers under project numbers generated by the DoD Five Year Defense Program (FYDP) Program element 6 (Research and Development) RDT&E funding, for correlation with same entries in the 1498 and 1634 data systems.

CONTENT: / task number entries, separated by commas, for a total of 73 alphanumeric and special characters. a task number character length is variable depending on the DoD agency or military service number structure. Additional task numbers are entered temporarily in Field 25 for eventual recapture, beginning with designation TN (task number).

INTERNAL TAG: 17

DESC: N/A

EXTERNAL TAG: 210

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Document   Standard

NOTES: N/A

PAGE NUMBER 0059

ELEMENT: Monitor Acronym

SOURCE AGENCY: DTIC

USE: Required

DEFN: This specific data entry refers to the acronym prefix of the report series number assigned to a technical report by the
      military organization or government office monitoring or sponsoring the research in the report.

CONTENT: Up to 2 entries, each having up to 30 alphanumeric and special characters. There are numerous character limitation
         depending on system programs and display requirements.

INTERNAL TAG: 18

DESC: N/A

EXTERNAL TAG: 180

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: The report number segment of the monitor's series is currently continued in Field 19. There is no entry in Field 18
       unless there is an entry in Field 19. The alphanumeric and spacing composition of the monitor acronym entry is
       variational according to an agency's own designation or the acronym supplied. The monitor acronym field also optionally
       generates a separate Field 18 acronym data file.

ELEMENT: Monitor Series

SOURCE AGENCY: DTIC

USE: If available

DEFN: This data element contains the remainder of a monitor agency's report number with the prefixed acronyn entered in field 18, Monitor Acronym.

CONTENT: Up to 2 entries, separated by a coma, each having up to 42 alphanumeric and special characters. The alphanumeric and spacing composition of the series number is variable according to an agency's usage. There are numerous character limitations depending on system programs and display requirements.

INTERNAL TAG: 19

DESC: N/A

EXTERNAL TAG: 180

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Report Classification

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The security classification of the total document as determined by the original classification authority according to the DoD Security Classification Guide issued covering the classification of the information in the report. The report classification indicates the degree of protection required against unauthorized disclosure as determined by the needs and interests of national defense.

CONTENT: Single alpha codes: u (unclassified), r (restricted), c (confidential), or s (secret).

INTERNAL TAG: 20

DESC: N/A

EXTERNAL TAG: 110

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Supplementary Note

SOURCE AGENCY: DTIC

USE: Optional

DEFN: This entry is a narrative statement of information about the report not included elsewhere in the cataloguing.

CONTENT: The narrative information put in this field is supplemental to any of the cataloging information; it is not retrievable. This entry must always be unclassified. There is a 600 character limitation.

INTERNAL TAG: 21

DESC: N/A

EXTERNAL TAG: 500

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Limitations (Alpha) / Distribution Availability Statements

SOURCE AGENCY: DTIC

USE: Required

DEFN: This field contains a supplied narrative statement taken from information on the document concerning access to a
    document through its distribution control, availability limitation, or disclosure constraint.

CONTENT: With any narrative statement displayed, or in the absence of a distribution control statement, an appropriate code is
    entered in Field 33 (Limitation Availability Codes/Distribution Availability Codes); an exception is the entry of a
    supplied CBDWI disclosure statement which is coded in, but not generated from, Field 31 (Special Code/Special
    Indicator). Although the codes in Field 33 represent the statements, no statement generation is provided in field as by
    those codes. The narrative statement as supplied provides a display statement and the field 33 (and Field 31) codes
    provide inventory file control of the document.

INTERNAL TAG: 22

DESC: N/A

EXTERNAL TAG: 130

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: The current statement entry procedures were established to satisfy in part the requirements of DODD 5400.23,
    Distribution Statements on Technical Reports.

ELEMENT: Posting Terms / Descriptors

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Any single word or phrase expressing the main concept of the technical effort being reported.

CONTENT: No stated machine entry character limitation for a single term; total field entry of up to 1200 alphanumeric and special characters; each term entry separated by a comma. Posting terms currently assigned by DTIC are found in the DoD Retrieval and Indexing Terminology (DRIT) publication. This controlled vocabulary is a product of DTIC's Natural Language Data Base (NLDB) which in effect is a thesaurus held in mass storage. Posting terms, although underlying, general in nature, vary in specificity according to the various subject disciplines. All are unclassified. For security reasons, concerning a document, posting terms may be put in Field 25 (Identifiers and Open-ended Terms). Currently, the character limitations of a term are dependent on the individual requirements of machine programs and display modes. Weighted descriptors contain an asterisk as the first character of the term.

INTERNAL TAG: 23

DESC: N/A

EXTERNAL TAG: 300

DESC: 300 is used by NTIS for Asterisked Descriptors and 400 is used by NTIS for Unasterisked Descriptors.

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Posting Terms / Descriptors

SOURCE AGENCY: DTIC

USE: Mandatory

DEFS: Any single word or phrase expressing the main concept of the technical effort being reported.

CONTENT: No stated machine entry character limitation for a single term; total field entry of up to 1200 alphanumeric and special characters; each term entry separated by a comma. Posting terms currently assigned by DTIC are found in the Data Retrieval and Indexing Terminology (DRIT) publication. This controlled vocabulary is a product of DTIC's Natural Language Data Base (NLDB) which in effect is a thesaurus held in mass storage. Posting terms, although usually specific in nature, vary in specificity according to the various subject disciplines. All are unclassified. For security reasons, concerning a document, posting terms may be put in Field 25 (Identifiers and Open-ended Terms). Currently, the character limitations of a term are dependent on the individual requirements of machine programs and display devices. Weighted descriptors contain an asterisk as the first character of the term.

INTERNAL TAG: 23

DESC: N/A

EXTERNAL TAG: 400

DESC: 380 is used by NTIS for Asterisked Descriptors and 400 is used by NTIS for Unasterisked Descriptors.

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: N/A

PAGE NUMBER 0066

ELEMENT: Descriptor Classification

SOURCE AGENCY: DTIC

USE: Required

DEFN: Indicates the classification of the posting terms entered in Field 23 (Posting Terms/Descriptors).

CONTENT: Single alpha codes: u (unclassified), r (restricted), c (confidential), or s (secret). All slum posting table are
unclassified.

INTERNAL TAG: 24

DESC: N/A

EXTERNAL TAG: 370

DESC: N/A

CHARACTER SET: u

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Identifiers and Open-ended Terms

SOURCE AGENCY: DTIC

USE: Optional

DEFN: Identifiers are any single word or groups of words which refer to specific scientific or technical concepts (project names, code names, originator supplied key words, weapon systems, etc.). Open-ended terms are any single word or group of words used to express a concept of the technical report being submitted. Open-ended terms are used to identify subjects for which there are no identifiers or posting terms/descriptors available. Consequently, these terms should not in the controlled vocabulary.

CONTENT: No stated machine entry character limitation for a single term; total field entry of up to 1200 alphanumeric characters, each term entry separated by a comma. Currently, open-ended terms are assigned in field 25 by DTIC either in input and these two types of terms are not distinguished either in input or in the on-line display (where they are both accessed as identifiers). Currently, the character limitations of a term are dependent on the individual requirements of the programs and display uses.

INTERNAL TAG: 25

DESC: N/A

EXTERNAL TAG: 440

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: These terms are used to provide unique subject access points, which would otherwise be available through the controlled vocabulary (Posting Terms).

ELEMENT: Identifiers and Open-ended Terms Classification

SOURCE AGENCY: DTIC

USE: Required

DEFN: Indicates the classification of the terms entered in Field 45 (Identifiers and Open-ended Terms).

CONTENT: Single alpha codes: u (unclassified), r (restricted), c (confidential), or s (secret).

INTERNAL TAG: 26

DESC: N/A

EXTERNAL TAG: 430

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: Staff   Standard

NOTES: N/A

ELEMENT: Abstract

SOURCE AGENCY: DTIC

USE: Optional

DEFN: Brief summary of the most significant information contained in the report.

CONTENT: Variable length field not to exceed 1800 alphanumeric and special characters (about 200 words).

INTERNAL TAG: 27

DESC: N/A

EXTERNAL TAG: 620

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: The abstract is unclassified whenever possible. Classification of the abstract is indicated in separate field 2b. Most editorial work is done to the abstract in-house such as verbalizing for machinability, editing and acronym, suppressing brand names or qualitative comparisons, etc.

PAGE NUMBER 0070

ELEMENT: Abstract Classification

SOURCE AGENCY: DTIC

USE: Required

DEFN: Indicates the classification of the Abstract narrative entered in Field 27 (Abstract).

CONTENT: Single alpha codes: u (unclassified), r (restricted), c (confidential), or s (secret).

INTERNAL TAG: 28

DESC: N/A

EXTERNAL TAG: 600

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Initial Inventory / Inventory

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Records the total number of hard copies of a document received from a contributor.

CONTENT: Numerics only, 3 character limitation.

INTERNAL TAG: 29

DESC: N/A

EXTERNAL TAG: 810

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: The number is entered both for the direct file and the inventory file. Mandatory entry on all DTIC processed and disseminated documents.

ELEMENT: Annotation / Index Annotation

SOURCE AGENCY: DTIC

USE: Optional

DEFN: Currently, an entry in this field provides a title modification or substitution effecting specified entries in the TAB and NTIS Indexes.

CONTENT: Narrative entry, up to 450 alphanumeric and special characters.

INTERNAL TAG: 30

DESC: N/A

EXTERNAL TAG: 270

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: 1) DTIC entry for TAB Indexes - An unclassified annotation entry is made, depending on title circumstances, generating specified entries in the TAB Indexes.
2) DTIC entry for NTIS GRA Indexes - with unclassified, unlisted serials and translations, the titles are captured in this field, but including the designations "Reprint" and "Translation" in order to appear as such in the GRA Indexes.

ELEMENT: Special Codes

SOURCE AGENCY: DTIC

USE: If available

DEFN: DTIC Special Codes are applied to:
  1) Classified materials that have restricted dissemination requirements in addition to the security classification assigned, as imposed by DoD regulations and DoD obligations to other agency requirements.
  2) Classified and unclassified materials that are designated as being excluded from any type of file publication or announcement (referred to as "Type 3" unannounced reports).
  3) Classified and unclassified documents when it is necessary to indicate the display availability of an abstract or an

CONTENT: A - TAB displayable abstract
        X - Type 3 Unannounced
        Y - CNWDI
        Z - CNWDI - Type 3 Unannounced

INTERNAL TAG: 31

DESC: N/A

EXTERNAL TAG: 820

DESC: N/A

CHARACTER SET: One of 4 possible alphabetic codes

DATA SOURCE: taff   Standard

NOTES: N/A

ELEMENT: Regrade Category / Reclassification Code

SOURCE AGENCY: DTIC

USE: Required

DEFN: The Regrade Category Code entry is the DTIC implementation of DoD 5200.1-R, Information Security Program Regulation. The code entry identifies the manner in which the classified report is to be downgraded or declassified.

CONTENT: Single Character alpha code, as follows:
    A - documents with declassification dates.
    B - documents with declassification events.
    C - documents with 30 year review dates (21 to 30 years).
    D - documents with 20 year review dates (7 to 20 years).
    E - documents with RD-Restricted Data and FRD-Formerly Restricted Data markings under AEC Act 1954.
    F - foreign documents (not US documents with foreign source information).
    G - documents with past due "Review on" date (Field 46) (not used on new document input).

INTERNAL TAG: 32

DESC: N/A

EXTERNAL TAG: 120

DESC: N/A

CHARACTER SET: One of 7 possible alphabetic codes

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Limitation Availability Codes / Distribution Availability Codes

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: The entry in this field represents a document's distribution control, availability limitation, and special codes or additional disclosure constraints. The codes for distribution and availability subrogate the narrative statement if entered in Field 22 (Limitations (Alpha)/Distribution-Availability Statements) but without generating first ... information. The special codes generate additional disclosure constraint designations that are addended to the ... classification.

CONTENT: One and two character numeric codes are entered with up to 3 codes employed as appropriate. The codes are used for inventory file control. Codes 1 through 17 represent documents distribution control, with entry of an appropriate distribution control code mandatory. Additionally, any distribution code representing limited distribution (3, 4, ..., 13, 14, 15, 16) machine-generates the letter L, suffixed to the accession number, meaning "limited". Codes ... 24 represent a document's availability limitation, usually its physical limitation, and in extension, its place of purchase if so designated. Codes 50 through 54 represent the special coding for additional information disclosure constraints.

INTERNAL TAG: 33

DESC: N/A

EXTERNAL TAG: 140

DESC: N/A

CHARACTER SET: One of 21 possible numeric codes

DATA SOURCE: Document   Standard

NOTES: N/A

ELEMENT: Serial Number / Source Series

SOURCE AGENCY: DTIC

USE: Required

DEFN: The document serial number entry is a modified version of the information described in Field 9 (Descriptive Note) or Field 6 (Title).

CONTENT: Up to 19 alphanumeric characters. The entry for one item, only, is made, in coded or modified form. There is a only entry limitation and precedence as follows:
    1) F   Final
    2) #   numeric succession; Field 9, numeric serialization; Field 6, title succession, such as volumes, parts, books.
    3) A   Annual
        or
        S   Summary

INTERNAL TAG: 34

DESC: N/A

EXTERNAL TAG: 198

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: The alpha codes are programmed to appear with the contracts in the Contract Index of the YAB Indexes.

ELEMENT: Source Code

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Numeric designation of a unique organizational entity.

CONTENT: o character numeric code

INTERNAL TAG: 35

DESC: N/A

EXTERNAL TAG: 310

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff   Standard

NOTES: The standard source code is assigned to an organization established for entry into the Source Header File. This source code will be used in any subsequent reference to the organization.

ELEMENT: Document Location

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: When this data item was established, its original intention was to indicate by numeric code whether an AD document and microfiche were located at DTIC or at NTIS. The location appeared on direct file display by acronym, being converted from the code numbers. The code numbers (1 - NTIS, 2 - DTIC) were used for Inventory File control. These two codes continue to be generated automatically through the AD number ranges.

CONTENT: For DTIC processed AD's (a) the AD number-generated code numbers go to the direct file and are converted to NTIS, or DTIC; (b) in the inventory file all 1's are converted to 2. Consequently, only code 2 is currently used in this file.
With the expansion of the TR system to remote terminal input (IACs and SBIR) the remote terminal sites have been assigned code numbers in conjunction with the AD number ranges assigned to those sites. However this field is invisible to the general public.

INTERNAL TAG: 36

DESC: N/A

EXTERNAL TAG: 830

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Machine

NOTES: N/A

ELEMENT: Classification Authority

SOURCE AGENCY: DTIC

USE: Required

DEFN: This entry indicates the original classification authority stated in the classification and reclassification statement on the classified document.

CONTENT: 100 alphanumeric character limit, narrative.

INTERNAL TAG: 37

DESC: N/A

EXTERNAL TAG: 840

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Not a bibliographic display field; an informational field for document security control.

ELEMENT: Declassification Date or Event

SOURCE AGENCY: DTIC

USE: Required

DEFN: The original classification authority predetermines at the time of classification the date (or event) on which a
    classified report becomes unclassified.

CONTENT: 100 alphanumeric character limited field for a declassification event statement entry when there is no policy entry.
    Policy entry of (a) 2 digit year through 1999, e.g., 31 Dec 99; (b) 4 digit year for years 2000, e.g., 31 Dec 2000.

INTERNAL TAG: 38

DESC: N/A

EXTERNAL TAG: 850

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: This entry indicates when the Field 20 entry is to be changed to "u" through technical report file maintenance.

ELEMENT: Downgrade to Confidential Date or Event

SOURCE AGENCY: DTIC

USE: Required

DEFN: The original classification authority predetermines at the time of classification the date (or an event in the absence of a date) on which a secret report becomes confidential.

CONTENT: 100 alphanumeric character limited field for a downgrading statement entry when there is no date. Policy ent., or (a) 2 digit year through 1999, e.g., 31 Dec 99; (b) 4 digit year from year 2000, e.g., 31 Dec 2005.

INTERNAL TAG: 39

DESC: N/A

EXTERNAL TAG: 860

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: This entry indicates when the Field 20 entry is to be changed from "s" to "c" through technical report file maintenance.

ELEMENT: Geopolitical Code

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Identifies the geographic or geopolitical location of an organization.

CONTENT: This code is a four-character numeric, a four-character numeric-alpha or a two-character alpha code. The first two
characters of the code represent the state or foreign country, the second two characters represent the congressional
district in which the organization is situated.

INTERNAL TAG: 40

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine   Standard

NOTES: The geopolitical/location code is assigned to an organization when it is established for entry into the Source Header
File. Consequently, the geopolitical/location code will appear in any subsequent reference to the organization.

ELEMENT: Type Code

SOURCE AGENCY: DTIC

USE: Mandatory

DEFN: Code that characterizes the organization according to what kind of organization it is.

CONTENT: Single alpha or numeric code representing one of 33 general classes.

INTERNAL TAG: 41

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine   Standard

NOTES: A type code is assigned by DTIC to an organization when the entry is established for inclusion in the Source file.
    Subsequent reference or use of an organization usually also entails the display of the type code.

ELEMENT: IAC Report Number

SOURCE AGENCY: DTIC

USE: N/A

DEFN: A number assigned by the IAC to provide a unique identity to each IAC-accessed document.

CONTENT: Entered by IAC. Up to 5 alphas making an IAC identifier; a dash (-); then 6 numerics, zero-filled, in a string used .. for a maximum of 12 characters.

INTERNAL TAG: 42

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: N/A

NOTES: The IAC identifier prefixes are: GC- (GACIAC), NCIC- (NCIC), NT- (NTIAC), PL- (PLASTEC). The IAC document number also acts as a flag identifying the entire report citation record with the IAC submitting the data.

ELEMENT: IAC Document Type and Location Code

SOURCE AGENCY: DTIC

USE: N/A

DEFN: Code identifying a type of IAC-accessioned document.

CONTENT: Entered by IAC. A single character entry of a numeric or an alpha as follows:

Code	Explanation
1	Hard Copy
2	Microfiche
3	Microfilm
4	Journal Articles
5	Official Use Only
6	Proprietary
7	Confidential
8	Secret
A	Hard Copy - Secret
B	Microfiche - Secret
C	Hard Copy - Confidential
D	Microfiche - Confidential
E	Hard Copy - Proprietary
F	Microfiche - Proprietary

INTERNAL TAG: 43

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: One of 14 possible alphanumeric codes

DATA SOURCE: Standard

NOTES: N/A

ELEMENT: IAC Subject Terms

SOURCE AGENCY: DTIC

USE: N/A

DEFN: A set of IAC-specific subject terms.

CONTENT: Entered by IAC. Up to 600 alphanumeric character total field entry, each term entry separated by a comma, optional weighting by asterisk prefix.

INTERNAL TAG: 44

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: alphanumeric

DATA SOURCE: Staff   Machine

NOTES: When the IAC site enters its subject terms, the DTIC machine program for the IAC data sub-set automatically prefixes each term with an IAC site code. This procedure creates a sub-set of individual IAC terms, prevents the IAC terms from being intermixed with the main DTIC terminology, and provides the individual IAC site the capability to retrieve on its own set of terms. The IAC alpha code terms are: G-- (GACIAC), H-- (HCIC), H-- (HTIAC), P-- (PLASTEC). No distinction is made in this field between descriptors and identifiers.

ELEMENT: Declassification Extension Authority

SOURCE AGENCY: DTIC

USE: If available

DEFN: Identifies the Top Secret classification authority who authorized classification for more than 6 years.

CONTENT: 100 alphanumeric character limit, narrative.

INTERNAL TAG: 45

DESC: N/A

EXTERNAL TAG: 900

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Declassification Review Date

SOURCE AGENCY: DTIC

USE: If available

DEFN: Identifies the specific date for declassification review, as displayed in the report classification statement.

CONTENT: Up to 7 alphanumeric characters with the machine edit eliminating spaces (up to 2). Policy entry of 1 to 2 numeric day, 3 alpha character month, 2 numeric year, e.g., 1 Jun 96.

INTERNAL TAG: 46

DESC: N/A

EXTERNAL TAG: 910

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: N/A

ELEM#1: Classification Extension Reason

SOURCE AGENCY: DTIC

USE: If available

DEFN: Numeric codes 1 through 8 corresponding to the extension reasons prescribed in DoD 5200.1-R, Information Security Program Regulation, Dec 78, para. 2-301.c, identifying the applicable reason(s) justifying classification beyond 6 years.

CONTENT: Single digit numeric codes 1 through 8, with up to 8 entries, identifying the ISPR reasons as follows:
1   Foreign government information.
2   Protection specifically required by statute.
3   Information revealing intelligence sources or methods.
4   Pertaining to communications security.
5   Disclosure which can be reasonably expected to result in nullifying the effectiveness of a system, installation or project.
6   Disclosure which can be reasonably expected to result in nullifying the effectiveness of a plan itself or its orderly implementation.
7   Information concerning specific foreign relation matters.
8   Disclosure placing a person in immediate jeopardy.

INTERNAL TAG: 47

DESC: N/A

EXTERNAL TAG: 920

DESC: N/A

CHARACTER SET: One of 8 possible numeric codes

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Remote Terminal (SBI) Site Holdings Symbol

SOURCE AGENCY: DTIC

USE: Optional

DEFN: Designates holdings information for an SBI remote terminal site of the document holdings in its collection.

CONTENT: Site-originated entry composed of: three alphas, as the site identification code, followed by, 1, alphanumeric and special characters, with a total of 15 characters. This field is only visible to the site.

INTERNAL TAG: 48

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: N/A

NOTES: The purpose of the holdings symbol field is to provide a place for SBI sites to append information to on-line records to indicate that the site holds the document described by the record and its accession identification. The addition of this information to a direct file record permits the participant to use DTIC's on-line system to search their own document collections. An SBI site may enter holdings symbols to any record available on-line in the DTIC on data bank, in addition to adding the symbol to the record when it is created. Site use is optional.

ELEMENT: Authority for Classification Field

SOURCE AGENCY: DTIC

USE: N/A

DEFN: Reference to letters of authority for any change in the classification or distribution of the document.

CONTENT: 600 character narrative

INTERNAL TAG: 49

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: This field is for display only - it is not on outside tapes. It is basically for housekeeping purposes.

COOPERATIVE DATA ELEMENT DICTIONARY - DTIC INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
Abstract	DTIC	0069
Abstract Classification	DTIC	0070
Accession Number	DTIC	0042
Annotation / Index Annotation	DTIC	0072
Authority for Classification Field	DTIC	0091
Classification Authority	DTIC	0079
Classification Extension Reason	DTIC	0089
Classified Title	DTIC	0046
Contract or Grant Number	DTIC	0055
Contract or Grant Number	DTIC	0056
Corporate Author	DTIC	0046
Declassification Date or Event	DTIC	0080
Declassification Extension Authority	DTIC	0087
Declassification Review Date	DTIC	0068
Descriptive Note	DTIC	0050
Descriptor Classification	DTIC	0066
Document Location	DTIC	0078
Downgrade to Confidential Date or Event	DTIC	0081
DoD-modified COSATI Subject Field and Group Codes	DTIC	0043
Geopolitical Code	DTIC	0082
Identifiers and Open-ended Terms	DTIC	0067
Identifiers and Open-ended Terms Classification	DTIC	0068
Initial Inventory / Inventory	DTIC	0071
IAC Document Type and Location Code	DTIC	0085
IAC Report Number	DTIC	0084
IAC Subject Terms	DTIC	0086
Limitation Availability Codes / Distribution Availability Codes	DTIC	0075
Limitations (Alpha) / Distribution Availability Statements	DTIC	0063
Machine Record Classification	DTIC	0044
Monitor Acronym	DTIC	0059
Monitor Series	DTIC	0060
NTIS Price	DTIC	0045
Pagination	DTIC	0053
Personal Author	DTIC	0051
Posting Terms / Descriptors	DTIC	0064
Posting Terms / Descriptors	DTIC	0065
Regrade Category / Reclassification Code	DTIC	0074
Remote Terminal (SRI) Site Holdings Symbol	DTIC	0090
Report date	DTIC	0052
Report Classification	DTIC	0061
RDT&E Project number	DTIC	0057
RDT&E Task Number	DTIC	0058
Serial Number / Source Series	DTIC	0076
Source Code	DTIC	0077
Source Series / Report Number	DTIC	0054
Special Codes	DTIC	0073
Supplementary Note	DTIC	0062
Title Classification	DTIC	0049
Type Code	DTIC	0083
Unclassified Title	DTIC	0047

COOPERATIVE DATA ELEMENT DICTIONARY - DTIC INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
01	Accession Number		
02	DOD-modified COSATI Subject Field and Group Codes	DTIC	0042
03	Machine Record Classification	DTIC	0043
04	NTIS Price	DTIC	0044
05	Corporate Author	DTIC	0045
06	Unclassified Title	DTIC	0046
07	Classified Title	DTIC	0047
08	Title Classification	DTIC	0048
09	Descriptive Note	DTIC	0049
10	Personal Author	DTIC	0070
11	Report date	DTIC	0051
12	Pagination	DTIC	0052
14	Source Series / Report Number	DTIC	0053
15	Contract or Grant Number	DTIC	0054
15	Contract or Grant Number	DTIC	0055
16	RDT&E Project Number	DTIC	0056
17	RDT&E Task Number	DTIC	0057
18	Monitor Acronym	DTIC	0058
19	Monitor Series	DTIC	0059
20	Report Classification	DTIC	0000
21	Supplementary Note	DTIC	0001
22	Limitations (Alpha) / Distribution Availability Statements	DTIC	0002
23	Posting Terms / Descriptors	DTIC	0003
23	Posting Terms / Descriptors	DTIC	0004
24	Descriptor Classification	DTIC	0005
25	Identifiers and Open-ended Terms	DTIC	0006
26	Identifiers and Open-ended Terms Classification	DTIC	0007
27	Abstract	DTIC	0008
28	Abstract Classification	DTIC	0009
29	Initial Inventory / Inventory	DTIC	0010
30	Annotation / Index Annotation	DTIC	0011
31	Special Codes	DTIC	0012
32	Regrade Category / Reclassification Code	DTIC	0013
33	Limitation Availability Codes / Distribution Availability Codes	DTIC	0014
34	Serial Number / Source Series	DTIC	0015
35	Source Code	DTIC	0016
36	Document Location	DTIC	0077
37	Classification Authority	DTIC	0078
38	Declassification Date or Event	DTIC	0079
39	Downgrade to Confidential Date or Event	DTIC	0080
40	Geopolitical Code	DTIC	0081
41	Type Code	DTIC	0082
42	IAC Report Number	DTIC	0083
43	IAC Document Type and Location Code	DTIC	0084
44	IAC Subject Terms	DTIC	0085
45	Declassification Extension Authority	DTIC	0086
46	Declassification Review Date	DTIC	0087
47	Classification Extension Reason	DTIC	0088
48	Remote Terminal (RRT) Site Holdings Symbol	DTIC	0089
49	Authority for Classification Field	DTIC	0090
		DTIC	0091

COOPERATIVE DATA ELEMENT DICTIONARY - DTIC INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
N/A	Geopolitical Code	DTIC	0002
N/A	Type Code	DTIC	0003
N/A	IAC Report Number	DTIC	0004
N/A	IAC Document Type and Location Code	DTIC	0005
N/A	IAC Subject Terms	DTIC	0006
N/A	Remote Terminal (SRI) Site Holdings Symbol	DTIC	0050
N/A	Authority for Classification Field	DTIC	0051
001	Accession Number	DTIC	0062
110	Report Classification	DTIC	0061
120	Regrade Category / Reclassification Code	DTIC	0074
130	Limitations (Alpha) / Distribution Availability Statements	DTIC	0003
140	Limitation Availability Codes / Distribution Availability Codes	DTIC	0075
170	Source Series / Report Number	DTIC	0054
180	Monitor Acronym	DTIC	0059
180	Monitor Series	DTIC	0060
190	Serial Number / Source Series	DTIC	0076
200	RDT&E Project Number	DTIC	0057
210	RDT&E Task Number	DTIC	0056
220	Unclassified Title	DTIC	0047
230	Title Classification	DTIC	0049
240	Classified Title	DTIC	0048
270	Annotation / Index Annotation	DTIC	0072
280	Personal Author	DTIC	0051
300	Corporate Author	DTIC	0046
310	Source Code	DTIC	0077
320	Contract or Grant Number	DTIC	0033
330	Contract or Grant Number	DTIC	0058
350	DoD-modified COSATI Subject Field and Group Codes	DTIC	0043
370	Descriptor Classification	DTIC	0060
380	Posting Terms / Descriptors	DTIC	0064
400	Posting Terms / Descriptors	DTIC	0005
430	Identifiers and Open-ended Terms Classification	DTIC	0060
440	Identifiers and Open-ended Terms	DTIC	0067
480	Report date	DTIC	0052
520	Pagination	DTIC	0055
530	NTIS Price	DTIC	0045
540	Descriptive Note	DTIC	0050
580	Supplementary Note	DTIC	0062
600	Abstract Classification	DTIC	0070
620	Abstract	DTIC	0069
800	Machine Record Classification	DTIC	0044
810	Initial Inventory / Inventory	DTIC	0073
820	Special Codes	DTIC	0073
830	Document Location	DTIC	0076
840	Classification Authority	DTIC	0075
850	Declassification Date or Event	DTIC	0060
860	Downgrade to Confidential Date or Event	DTIC	0063
900	Declassification Extension Authority	DTIC	0067
910	Declassification Review Date	DTIC	0066
920	Classification Extension Reason	DTIC	0069

ELEMENT: LEADER, BYTES 0-23

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: OCCURS AT THE BEGINNING OF EACH BIBLIOGRAPHIC RECORD AND PROVIDES PARAMETERS FOR PROCESSING OF THE RECORD.

CONTENT: FIXED IN LENGTH FOR ALL RECORDS AND CONTAINS 24 CHARACTERS. BYTES 0-4, 10, 11, 12-16, 17, 20, 21, 22, 23 AND 23 CONTAIN NUMERALS. BYTES 5, 6, 7, AND 18 CONTAIN ALPHABETICS. BYTES 8-9 AND 19 CONTAIN A BLANK CHARACTER.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LER

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE   STAFF

NOTES:

ELEMENT: LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONSISTS OF THE TOTAL NUMBER OF CHARACTERS, INCLUDING ITSELF, IN THE LOGICAL RECORD.

CONTENT: CONTAINS FIVE NUMERICS, RIGHT-JUSTIFIED WITH LEADING ZEROS.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: RECORD STATUS, LEADER, BYTE 5.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: DEFINES THE STATUS OF THE RECORD.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: CODES: A - INCREASE IN ENCODING LEVEL
              C - CORRECTED OR REVISED RECORD
              D - DELETED RECORD
              N - NEW RECORD (I.E., A NEWLY INPUT RECORD)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: LEGEND, LEADER, BYTES 6-9.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: IDENTIFIES AND DESCRIBES THE RECORD. THIS IDENTIFICATION AND DESCRIPTION IMPLIES 1) THE CONTENT OF THE RECORD, I. ..,
    PRINTED LANGUAGE MATERIAL OR MICROFORM CATALOGED AS A BOOK; AND 2) THE MEANING OF THE CONTENT DESIGNATORS, I..., IN
    WHICH MARC FORMAT THE RECORD IS TRANSCRIBED.

CONTENT: BYTE 6 CONTAINS THE ALPHABETIC CHARACTER "A;" BYTE 7 THE ALPHABETIC CHARACTER "M." BYTES 8-9 ARE BLANK.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS

DATA SOURCE: MACHINE

NOTES:

ELEMENT: TYPE OF RECORD, LEADER, BYTE 6.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: INDICATES THE TYPE OF RECORD.

CONTENT: CONTAINS THE ALPHABETIC CHARACTER "A" (LANGUAGE MATERIAL, PRINTED OR MICROFORM).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: CODE: A - LANGUAGE MATERIAL, PRINTED OR MICROFORM

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: SPECIFIES THE BIBLIOGRAPHIC LEVEL OF A RECORD.

CONTENT: CONTAINS THE ALPHABETIC CHARACTER "M" (MONOGRAPH).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: CODE: M - MONOGRAPH

CHARACTER SET: EXPANDED 8-BIT ASCII FOR BASC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: BLANKS, LEADER, BYTES 8-9.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: TWO UNDEFINED BYTES.

CONTENT: CONTAINS TWO BLANK CHARACTERS.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: INDICATOR COUNT, LEADER, BYTE 10.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE INDICATOR COUNT. IN THE MARC FORMATS, EACH VARIABLE FIELD BEGINS WITH TWO CHARACTERS CALLED INDICATORS WHICH
    PROVIDE DESCRIPTIVE INFORMATION ABOUT THE DATA ELEMENT WHICH FOLLOWS. ALL VARIABLE FIELDS MUST BE INCREASED BY TWO TO
    REACH THE DELIMITER BEFORE THE SUBFIELD CODE FOR THE FIRST DATA ELEMENT IN THE FIELD.

CONTENT: CONTAINS THE NUMERAL "2" (IN THE MARC FORMATS)

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 6-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: SUBFIELD CODE COUNT, LEADER, BYTE 11.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE SUBFIELD CODE COUNT. IN THE MARC FORMATS, EACH DATA ELEMENT WITHIN A VARIABLE FIELD IS IDENTIFIED BY A TWO-CHARACTER SUBFIELD CODE CONSISTING OF A DELIMITER (1F/16,8-BIT; 37/8,6-BIT) AND A LOWERCASE ALPHABETIC). SO CHARACTER. EACH DATA ELEMENT MUST BE INCREMENTED BY TWO TO REACH THE FIRST CHARACTER OF DATA.

CONTENT: CONTAINS THE NUMERAL "2" (IN THE MARC FORMATS)

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: BASE ADDRESS OF DATA, LEADER, BYTES 12-16.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: THE STARTING CHARACTER POSITION OF THE FIRST CONTROL FIELD. IT GIVES THE BASE FROM WHICH EACH FIELD IS ADDRESSED.
IT IS EQUAL TO THE SUM OF THE LENGTHS OF THE LEADER AND THE RECORD DIRECTORY, INCLUDING THE RECORD DIRECTORY FIELD
TERMINATOR. THE STARTING CHARACTER POSITION FOR EACH FIELD ENTERED IN THE RECORD IS RELATIVE TO THE FIRST
CHARACTER OF THE FIRST CONTROL FIELD RATHER THAN THE BEGINNING OF THE RECORD.

CONTENT: CONTAINS FIVE NUMERICS, RIGHT-JUSTIFIED WITH LEADING ZEROS.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR BABC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: ENCODING LEVEL, LEADER, BYTE 17.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: INDICATES THE DEGREE OF COMPLETENESS OF THE MACHINE RECORD.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: CODES: (BLANK) - FULL LEVEL
              1 - SUBLEVEL 1 (ITEM NOT EXAMINED)
              7 - SUBLEVEL 7 (PRELIMINARY CATALOGING)
              I - FULL LEVEL CATALOGING INPUT BY OCLC PARTICIPATING LIBRARY

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO WILL USE CODE I. GPO DATABASE GUIDELINE ENCODING LEVELS, NO. 9 FOR ALL NEW CATALOGING INPUT LEVEL I. FOR EXAMPLE
       RECORDS:
              A. CHANGE ENCODING LEVEL K TO I.
              B. DO NOT CHANGE A BLANK (LC FULL CATALOGING) ENCODING LEVEL OR LEVELS 1,5,7, OR 8.

ELEMENT: DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: INDICATES THE FORM OF DESCRIPTIVE CATALOGING USED IN THE RECORD.

CONTENT: CONTAINS THE ALPHABETIC CHARACTER "A" (RECORD IS AACR2).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: CODE: A - RECORD IS AACR2

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: MAY ALSO APPEAR AS FIXED FIELD, BYTE 91.

ELEMENT: BLANK (LEADER, BYTE 19)

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: UNDEFINED BYTE.

CONTENT: CONTAINS A BLANK CHARACTER.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES: IN THE NEAR FUTURE, THIS BYTE IS TO BE DEFINED AS "LINKED RECORD CODE." CODE "(BLANK)" WILL BE DEFINED AS "RELATED RECORD NOT REQUIRED TO FULLY PROCESS THE RECORD. CODE "r" WILL BE DEFINED AS "RELATED RECORD REQUIRED TO FULLY PROCESS THE RECORD."

ELEMENT: ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: DESCRIBES THE LAYOUT OF THE RECORD DIRECTORY ENTRIES. EACH 12-CHARACTER DIRECTORY CONSISTS OF: 3 CHARACTERS FOR THE TAG, 4 CHARACTERS FOR THE FIELD LENGTH, AND 5 CHARACTERS FOR THE STARTING-CHARACTER POSITION. FOR EACH DIRECTORY ENTRY, THE ENTRY MAP CONTAINS THE LENGTH OF THE LENGTH-OF-FIELD PORTION, THE LENGTH OF THE STARTING-CHARACTER-POSITION PORTION, AND THE LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, PLUS ONE UNDEFINED CHARACTER. AS REQUIRED BY THE ANSI STANDARD, THE TAG IS ALWAYS THREE CHARACTERS IN LENGTH AND THEREFORE THE LENGTH OF THE TAG IS NOT INCLUDED IN THE ENTRY MAP.

CONTENT: BYTE 20 CONTAINS THE NUMERAL "4"; BYTE 21 THE NUMERAL "5"; BYTE 22 THE NUMERAL "0" (ZERO); BYTE 23 THE NUMERAL "0" (ZERO) (IN THE SADC FORMATS).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR SADC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE LENGTH OF THE LENGTH-OF-FIELD PORTION OF EACH DIRECTORY ENTRY.

CONTENT: CONTAINS THE NUMERAL "4" (IN THE AARC FORMATS).

INTERNAL TAG: LEAD

DRSC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE LENGTH OF THE STARTING-CHARACTER-POSITION PORTION OF EACH DIRECTORY ENTRY.

CONTENT: CONTAINS THE NUMERAL "5" (IN THE MARC FORMATS).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: ARCHIVE

NOTES:

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ELEMENT: LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE LENGTH OF THE IMPLEMENTATION-DEFINED PORTION OF EACH DIRECTORY ENTRY.

CONTENT: CONTAINS THE NUMERAL "0" (IN THE MARC FORMATS).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: UNDEFINED CHARACTER, LEADER, BYTE 23.

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: UNDEFINED BYTE.

CONTENT: CONTAINS THE NUMERAL "0" (ZERO) (IN THE MARC FORMATS).

INTERNAL TAG: LEAD

DESC: N/A

EXTERNAL TAG: LEA

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: RECORD DIRECTORY

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: A SERIES OF FIXED-LENGTH ENTRIES (12 CHARACTERS EACH) WHICH CONTAIN THE IDENTIFICATION TAG, THE FIELD LENGTH, AND THE STARTING CHARACTER POSITION IN THE RECORD OF EACH CONTROL AND VARIABLE FIELD. BYTES 0-2 (TAG) IDENTIFY THE FIELD. BYTES 3-6 (FIELD LENGTH) CONSIST OF THE NUMBER OF CHARACTERS IN THE FIELD IDENTIFIED BY THE TAG. BYTES 7-11 (STARTING CHARACTER POSITION) GIVE THE CHARACTER POSITION IN THE RECORD OF THE FIRST CHARACTER OF THE FIELD.

CONTENT: FIXED-LENGTH ENTRIES (12 CHARACTERS EACH). THE RECORD DIRECTORY IS NOT REPEATABLE BUT THE ENTRIES WITHIN A GIVEN DIRECTORY ARE REPEATABLE. BYTES 0-2 (TAG) CONTAIN A THREE DIGIT NUMBER (TAGS IN THE BOOKS FORMAT TRANSLATIONS AND TECHNICAL REPORTS RANGE FROM 001 TO 830). BYTES 3-6 (FIELD LENGTH) CONTAIN FOUR NUMERICS, RIGHT-JUSTIFIED WITH LEADING ZEROS. BYTES 7-11 (STARTING CHARACTER POSITION) CONTAIN FIVE NUMERICS. THE FIRST RECORD DIRECTORY ENTRIES HAVE THE STARTING CHARACTER POSITION 00000. SUBSEQUENT RECORD DIRECTORY ENTRIES HAVE STARTING CHARACTER POSITIONS INCREASED BY THE FIELD LENGTH OF THE PREVIOUS ENTRY. THE RECORD DIRECTORY ENDS WITH A FIELD TERMINATOR CODE (16/10, 0-DA1; 36/10, 6-BIT).

INTERNAL TAG: RECD

DESC: N/A

EXTERNAL TAG: REC

DESC: BYTES: 0-2 - TAG
                 3-6 - FIELD LENGTH
                 7-11 - STARTING CHARACTER POSITION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

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ELEMENT: CONTROL NUMBER

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONTAINS THE OCLC CONTROL NUMBER.

CONTENT: CONTAINS SEVEN OR EIGHT NUMERIC CHARACTERS.

INTERNAL TAG: 001

DESC: N/A

EXTERNAL TAG: 001

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: DATE AND TIME OF LATEST TRANSACTION

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: INDICATES THE DATE AND TIME OF THE LATEST RECORD TRANSACTION. THE DATE IS RECORDED ACCORDING TO THE AMERICAN NATIONAL
    STANDARD REPRESENTATION FOR CALENDAR DATE AND ORDINAL DATE FOR INFORMATION INTERCHANGE. THE TIME IS RECORDED ACCORDING
    TO THE AMERICAN NATIONAL STANDARD REPRESENTATION OF LOCAL TIME OF THE DAY FOR INFORMATION INTERCHANGE.

CONTENT: CONTAINS 16 CHARACTERS (NUMERALS AND A PERIOD FOR A DECIMAL POINT). THE FIRST 8 NUMERICS ARE FOR THE DATE PORTION OF
    THE FIELD (4 FOR THE YEAR, 2 FOR THE MONTH, AND 2 FOR THE DAY). THE NEXT 8 POSITIONS ARE FOR THE PORTION OF THE
    FIELD (2 FOR THE HOUR, 2 FOR THE MINUTE, 2 FOR THE SECOND, AND 2 FOR A DECIMAL FRACTION OF THE SECOND, INCLUDING
    THE DECIMAL POINT).

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 005

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: PHYSICAL DESCRIPTION FIXED FIELD

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: USED TO ENCODE DETAILS OF THE PHYSICAL DESCRIPTION OF THE MICROFORM IN HAND.

CONTENT: FIXED IN LENGTH AT 12 BYTES. CONTAINS ALPHABETIC CODES. FILL CHARACTERS MAY BE PRESENT; OTHERS MAY BE FILLED IN BYTES 6-8.

INTERNAL TAG: PHY

DESC: N/A

EXTERNAL TAG: 007

DESC:

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: USED TO RECORD THE GENERAL MATERIAL DESIGNATION. A GENERAL MATERIAL DESIGNATION, ACCORDING TO AACR2, IS A TERM
    INDICATING THE BROAD CLASS OF MATERIAL TO WHICH AN ITEM BELONGS. THE CODE USED IN THIS BYTE IS THE TYPE TO WHICH
    SUBSEQUENT BYTES IN FIELD 007 REFER.

CONTENT: CONTAINS THE ALPHABETIC CHARACTER "H" (MICROFORM). "MICROFORM" IS ONE OF THE GENERAL MATERIAL DESIGNATION. CODED
    IN "LIST 2" ON P. 20 OF AACR2.

INTERNAL TAG: PHY

DESC: BYTE 0

EXTERNAL TAG: 007

DESC: BYTE 0.
    CODE: H - MICROFORM

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE SPECIFIC MATERIAL DESIGNATION. A SPECIFIC MATERIAL DESIGNATION, ACCORDING TO AACR2, IS A TERM INDICATING THE SPECIAL CLASS (USUALLY THE CLASS OF PHYSICAL OBJECT) TO WHICH AN ITEM BELONGS.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER. THE CODE VALUES, FOR THE MOST PART, ARE THOSE OF THE CODES PRESCRIBED BY AACR2 (SEE AACR2 11.5B1).

INTERNAL TAG: PHY

DESC: BYTE 1.

INTERNAL TAG: 007

DESC: BYTE 1,
     CODES: A - APERTURE CARD
             B - MICROFILM CARTRIDGE
             C - MICROFILM CASSETTE
             D - MICROFILM REEL
             E - MICROFICHE
             F - MICROFICHE CASSETTE
             G - MICROOPAQUE
             Z - OTHER MICROFORM
             9 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEF: SPECIFIES WHETHER THE ITEM IS AN ORIGINAL PRODUCTION OR A REPRODUCTION.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 2.

EXTERNAL TAG: 007

DESC: BYTE 2.
    CODES: F - FACSIMILE
            O - ORIGINAL
            R - REPRODUCTION
            U - UNKROWN
            1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR NADC RECORDS.

DATA SOURCE: STAFF

NOTES: BECAUSE THE USEFULNESS OF THIS BYTE IS CURRENTLY BEING QUESTIONED, INSTITUTIONS ARE ADVISED TO INPUT A FILL CHARACTER IN THIS POSITION.
    GPO NOT PRESENTLY USING P   DING DECISION.

ELEMENT: POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE ASPECT OF POLARITY OF THE MICROFORM (E.G., WHETHER LINES AND CHARACTERS APPEAR DARK AGAINST A LIGHT BACKGROUND OR VICE-VERSA, ETC.)

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PMT

DESC: BYTE 3.

EXTERNAL TAG: 007

DESC: BYTE 3, CODES:
    A - POSITIVE
    B - NEGATIVE
    M - MIXED POLARITY
    U - UNKNOWN
    1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: GPO NOT PRESENTLY USING PENDING DESCRIPTION.

ELEMENT: DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE DIMENSIONS OF THE MICROFORM ITEM; NOT THE DIMENSIONS OF THE IMAGE.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 4.

EXTERNAL TAG: 007

DESC: BYTE 4, CODES:
    A - 8 MM. (MICROFILM)
    D - 16 MM. (MICROFILM)
    F - 35 MM. (MICROFILM)
    G - 70 MM. (MICROFILM)
    H - 105 MM. (MICROFILM)
    L - 3X5 IN.OR 13 CM. (MICROFICHE, MICROOPAQUE)
    M - 4X6 IN. OR 11 X 15 CM. (MICROFICHE, MICROOPAQUE)
    O - 6X9 IN. OR 16 CM. (MICROFICHE, MICROOPAQUE)
    P - 3 1.4 X 7 3/8 IN. OR 9 X 19 CM. (APERTURE CARD)   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.
       CONTINUATION OF EXTAG DESC
       U - UNKNOWN
       Z - OTHER
       1 - FILL CHARACTER

ELEMENT: REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE "REDUCTION RATIO." IF THE "REDUCTION RATIO" IS NOT GIVEN ON THE MICROFORM, ONE MUST KNOW THE DIMENSIONS
OF THE ORIGINAL ITEM AND THE SIZE OF THE IMAGE ON THE MICROFORM IN ORDER TO CODE THE INFORMATION NEEDED FOR THIS
ELEMENT. A ONE-CHARACTER ALPHABETIC CODE, RECORDED IN BYTE 5, SPECIFIES THE RATIO RANGE. THE SPECIFIC "REDUCTION
RATIO" IS RECORDED IN BYTES 6-8.

CONTENT: AACR2 11.7B10 "... FOR ULTRA HIGH REDUCTION, GIVE ALSO THE SPECIFIC RATIO, E.G., ULTRA HIGH REDUCTION, 150X." THUS, IF
THE RATIO IS ULTRA HIGH, BYTE 5 SHOULD CONTAIN A ONE-CHARACTER ALPHABETIC CODE. IF THE RATIO IS NOT BEING USED,
RECORDING THE SPECIFIC RATIO IS OPTIONAL AND A FILL CHARACTER CAN BE INPUT IN THIS BYTE. IF THE SPECIFIC RATIO IS NOT
RECORDED, THREE FILL CHARACTERS ARE GIVEN IN BYTES 6-8. THUS, BYTES 6-8 CONTAIN EITHER THREE FILL CHARACTERS OR THE
NUMERIC VALUE OF THE DENOMINATION OF THE REDUCTION RATIO, USING THREE DIGITS RIGHT JUSTIFIED WITH LEADING ZEROS, E.G.,
015, 048. A HYPHEN IS USED FOR UNKNOWN DIGITS IN THE REDUCTION RATIO, E.G., 0J-, 1--, OR ---.

INTERNAL TAG: PHY

DESC: BYTES 5-8.

EXTERNAL TAG: 007

DESC: BYTES 5-8, CODES:
      A - LOW REDUCTION (LESS THAN 16X) (LESS THAN 16:1)
      B - NORMAL REDUCTION (FOR 16X-30X) (31:1-60:1)
      C - HIGH REDUCTION (FOR 31X-60X) (31:1-60:1)
      D - VERY HIGH REDUCTION (FOR 61X-90X) (61:1-90:1)
      E - ULTRA HIGH REDUCTION (FOR OVER 90X) (OVER 90:1)
      U - UNKNOWN
      V - REDUCTION RATIO VARIES
      1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: GPO WILL USE THE HYPHEN (-) TO INDICATE THAT THE SPECIFIC RATIO IS NOT RECORDED UNTIL THE FILL CHARACTER IS APPLICABLE
       AT GPO.

ELEMENT: COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE COLOR OF THE IMAGE FOR MICROFORMS.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 9.

EXTERNAL TAG: 007

DESC: BYTE 9,
    CODES: B - MONOCHROME (E.G., BLACK-AND-WHITE)
            C - COLOR
            M - COMBINATION OF THE TWO ABOVE
            U - UNKNOWN
            Z - OTHER
            1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE TYPE OF EMULSION ON FILM. THE WORD "EMULSION" IS USED TO DESCRIBE THE LIGHT-SENSITIVE MATERIAL WITHIN A MICROFORM. PROPER STORAGE AND USE OF MICROFORMS REQUIRES KNOWLEDGE OF THE EMULSION THEY CONTAIN.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 10.

EXTERNAL TAG: 007

DESC: BYTE 10.
CODES: A - SILVER HALIDE
         B - DIAZO
         C - VESICULAR
         M - MIXED EMULSION
         N - NOT APPLICABLE (ITEM DOES NOT HAVE EMULSION ON FILM)
         U - UNKNOWN
         Z - OTHER
         1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.

SOURCE ASPECT: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE GENERATION ASPECT.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 11.

EXTERNAL TAG: 007

DESC: BYTE 11,
      CODES: A - FIRST GENERATION (MASTER)
               B - PRINTING MASTER
               C - SERVICE COPY
               M - MIXED GENERATION
               U - UNKNOWN
               | - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE BASE OF THE FILM. THIS BYTE IS USEFUL CHIEFLY FOR ARCHIVAL PURPOSES.

CONTENT: CONTAINS A ONE-CHARACTER ALPHABETIC CODE OR A FILL CHARACTER.

INTERNAL TAG: PHY

DESC: BYTE 12.

EXTERNAL TAG: 007

DESC: BYTE 12,
        CODES: A - SAFETY BASE
                 B - NOT A SAFETY BASE (E.G., NITRATE)
                 N - NOT APPLICABLE (ITEM DOES NOT HAVE A FILM BASE)
                 U - UNKNOWN
                 1 - FILL CHARACTER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: FIXED LENGTH DATA ELEMENTS

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONVEYS INFORMATION OF POTENTIAL USEFULNESS FOR RETRIEVAL AND DATA MANAGEMENT PURPOSES. SOME OF THESE ELEMENTS PROVIDE EXPLICITLY INFORMATION THAT IS CONVEYED ONLY IMPLICITLY IN THE PRINTED BIBLIOGRAPHIC RECORDS. THIS FIELD APPEARS IN EVERY MARC RECORD, AND THERE IS ONLY ONE FIELD PER RECORD. THE DATA IS RIGIDLY STRUCTURED AND IS CODED FORM.

CONTENT: FIXED IN LENGTH AT 40 BYTES. CONTAINS ALPHABETICS (LOWERCASE), NUMERALS, AND BLANKS.

INTERNAL TAG: FFD

DESC: N/A

EXTERNAL TAG: 008

DESC: N/A

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE   STAFF

NOTES:

ELEMENT: DATE ENTERED ON FILE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE DATE THE RECORD WAS ENTERED INTO THE MARC SYSTEM AS AN INDICATION OF THE CURRENCY OF THE RECORD. THE DATE IS GIVEN IN THE SEQUENCE OF YEAR, MONTH, AND DAY, I.E., IN A YYMMDD PATTERN.

CONTENT: CONTAINS SIX NUMERIC CHARACTERS.

INTERNAL TAG: FFD

DESC: BYTES 41-46.

EXTERNAL TAG: 008

DESC: BYTES 0-5.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: TYPE OF PUBLICATION DATE CODE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: SPECIFIES THE TYPE OF DATE GIVEN IN THE DATE 1 (008, BYTES 7-10) AND DATE 2 (008, BYTES 11-14) ELEMENTS.

CONTENT: CONTAINS ONE OF THE ALPHABETIC CODES DEFINED FOR THE ELEMENT.

INTERNAL TAG: FFD

DESC: BYTE 51.

EXTERNAL TAG: 008

DESC: BYTE 6,
    CODES: C - TWO DATES: ACTUAL DATE AND COPYRIGHT DATE
            D - DETAILED DATE
            E - MULTIPLE DATES, I.E., INITIAL AND TERMINAL DATES
            Q - QUESTIONABLE DATE
            R - TWO DATES: REPRINT/REISSUE DATE AND ORIGINAL DATE
            S - SINGLE KNOWN DATE OR PROBABLE DATE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: DATE 1

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: FOUR NUMERIC CHARACTERS ARE USED TO REPRESENT THE DATE. THE CONTENT OF THIS ELEMENT IS DETERMINED BY THE CODE THAT APPEARS IN THE TYPE OF PUBLICATION DATE CODE (008, BYTE 6).

CONTENT: CONTAINS FOUR NUMERICS. EXCEPTION: IF CODE "N" IS PRESENT IN 008, BYTE 6 AND THE INITIAL DATE OF PUBLICATION IS UNKNOWN, DATE 1 CONTAINS BLANKS.

INTERNAL TAG: FFD

DESC: BYTES 52-55.

EXTERNAL TAG: 008

DESC: BYTES 7-10.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: DATE 2

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: FOUR NUMERIC CHARACTERS ARE USED TO REPRESENT THE DATE. THE CONTENT OF THIS ELEMENT IS DETERMINED BY THE CODE WHICH THAT APPEARS IN TYPE OF PUBLICATION DATE CODE (008, BYTE 6).

CONTENT: CONTAINS FOUR NUMERIC CHARACTERS. EXCEPTIONS: 1) WHEN CODE "D" IS PRESENT IN 008, BYTE 6 AND NO DATE IS GIVEN, THE LAST TWO CHARACTERS ARE BLANK; 2) WHEN CODE "S" IS PRESENT IN 008, BYTE 6, DATE 2 IS BLANK; 3) WHEN CODE "C" IS PRESENT IN 008, BYTE 6 AND THE ITEM HAS NOT YET CEASED PUBLICATION, DATE 2 CONTAINS "9999"; 4) WHEN CODE "R" IS PRESENT IN 008, BYTE 6 AND THERE IS EVIDENCE THAT THE WORK HAS BEEN PREVIOUSLY PUBLISHED BUT NO SPECIFIC DATE IS GIVEN, DATE 2 CONTAINS BLANKS.

INTERNAL TAG: FPD

DESC: BYTES 56-59.

EXTERNAL TAG: 008

DESC: BYTES 11-14.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: WHEN CODE C IS PRESENT IN 008, BYTES 11-14 CONTAIN FOUR NUMERICS.

PAGE NUMBER 0129

ELEMENT: COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: USED FOR THE COUNTRY OF PUBLICATION.

CONTENT: IF THE WORK IS PUBLISHED IN THE UNITED STATES, CANADA, THE SOVIET UNION OR THE UNITED KINGDOM, THE FIRST TWO CHARACTERS
OF THE FIELD CONTAIN A MNEMONIC CODE (AS GIVEN IN APPENDIX II.A. (COUNTRY OF PUBLICATION CODES) OF THE MARC FORMATS FOR
BIBLIOGRAPHIC DATA) FOR THE STATE, PROVINCE, OR OTHER SUBDIVISION WHERE THE WORK WAS PUBLISHED. THE THIRD CHARACTER
CONTAINS A CODE (U = UNITED STATES; C = CANADA; R = U.S.S.R.; K = UNITED KINGDOM) FOR COUNTRY. ALL OTHER COUNTRIES
ARE REPRESENTED BY A TWO-CHARACTER CODE (AS GIVEN IN APPENDIX II.A. (COUNTRY OF PUBLICATION CODES) OF THE MARC
FORMATS FOR BIBLIOGRAPHIC DATA), IN WHICH CASE, THE THIRD CHARACTER POSITION CONTAINS A BLANK.

INTERNAL TAG: PPD

DESC: BYTES 60-62.

EXTERNAL TAG: 008

DESC: BYTES 15-17.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: WHEN MORE THAN ONE PLACE APPEARS IN THE IMPRINT (260, SUBFIELD "A"), THE FIRST NAMED COUNTRY IS REPRESENTED IN THESE
BYTES.

ELEMENT: ILLUSTRATION CODE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: INDICATES THE PRESENCE OF CERTAIN TERMS IN THE PHYSICAL DESCRIPTION.

CONTENT: CONTAINS UP TO FOUR ONE-CHARACTER CODES DEFINED FOR THE ELEMENT. IF FEWER THAN FOUR CODES ARE AVAILABLE, THE CODES ARE LEFT JUSTIFIED AND UNUSED PORTIONS CONTAIN BLANKS.

INTERNAL TAG: PPD

DESC: BYTES 63-66.

EXTERNAL TAG: 008

DESC: BYTES 18-21.
    CODES: BLANK - NO ILLUSTRATIONS   I - COATS OF ARMS
             A   - ILLUSTRATIONS   J - GENEALOGICAL TABLES
             B   - MAPS   K - FORMS
             C   - PORTRAITS   L - SAMPLES
             D   - CHARTS   M - PHONODIC, PHONOWIRE, ETC.
             E   - PLANS
             F   - PLATES
             G   - MUSIC
             H   - FACSIMILES

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IF MORE THAN FOUR TERMS ARE APPROPRIATE TO THE CONTENT OF A GIVEN WORK, THE SEQUENCE OF THE CODE LIST DETERMINES WHICH FOUR ARE TO BE RECORDED.
    FIELD WILL BE USED TO COMPLIMENT 300 (PHYSICAL DESCRIPTION) FIELD.

ELEMENT: INTELLECTUAL LEVEL CODE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: DESCRIBES THE INTELLECTUAL LEVEL OF THE AUDIENCE FOR WHICH THE MATERIAL IS INTENDED.

CONTENT: CONTAINS A ONE-CHARACTER CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: PPD

DESC: BYTE 67.

EXTERNAL TAG: 008

DESC: BYTE 22,
    CODES: BLANK - UNKNOWN OR NOT APPLICABLE
           J   - JUVENILE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO ONLY INDICATES JUVENILE MATERIALS WITH CODE "J," OTHERWISE BYTE 22 IS LEFT BLANK.

ELEMENT: FORM OF REPRODUCTION CODE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES THE TYPE OF REPRODUCTION, INCLUDING WHETHER THE PUBLICATION IS IN OVERSIZE PRINT.

CONTENT: CONTAINS A ONE-CHARACTER CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: FFD

DESC: BYTE 68.

EXTERNAL TAG: 008

DESC: BYTE 23.
        CODES: BLANK - NOT A REPRODUCTION
                A   - MICROFILM
                B   - MICROFICHE
                C   - MICROOPAQUE
                D   - LARGE-PRINT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: COMPLIMENTS STATEMENTS IN 245 AND POSSIBLY 007 FIELDS.

ELEMENT: NATURE OF CONTENTS CODE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES CERTAIN TYPES OF MATERIALS USED FREQUENTLY FOR REFERENCE PURPOSES.

CONTENT: CONTAINS UP TO FOUR ONE-CHARACTER CODES DEFINED FOR THE ELEMENT. IF FEWER THAN FOUR CODES ARE PRESENT, THE CODES ARE
    LEFT-JUSTIFIED AND UNUSED PORTIONS CONTAIN BLANKS.

INTERNAL TAG: FFD

DESC: BYTES 69-72.

INTERNAL TAG: 008

DESC: BYTES 24-27.
    CODES: BLANK - NO SPECIFIED NATURE OF CONTENTS   A - ABSTRACTS
                      B - BIBLIOGRAPHIES   C - CATALOGS
                      D - DICTIONARIES   E - ENCYCLOPEDIAS
                      I - INDEXES   P - PROGRAMMED TEXTS
                      R - DIRECTORIES   S - STATISTICS
                      T - TECHNICAL REPORTS   Y - YEARBOOKS

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IF MORE THAN FOUR TYPES ARE PRESENT, THE SEQUENCE OF THE CODE LIST DETERMINES WHICH FOUR ARE TO BE RECORDED.
    FREQUENTLY, THIS INFORMATION CAN BE DETERMINED FROM OTHER AREAS OF THE RECORD, E.G., THE TITLE STATEMENT, THE
    SUBJECT HEADINGS, OR THE NOTES.

ELEMENT: GOVERNMENT PUBLICATION CODE

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: INDICATES THE JURISDICTIONAL LEVEL OF THE BODY CREATED OR CONTROLLED BY A NATIONAL, STATE (OR PROVINCIAL), OR LOCAL
      GOVERNMENT (INCLUDING INTER-GOVERNMENTAL BODIES OF ALL TYPES) WHICH PUBLISHED OR PRODUCED THE PUBLICATION.

CONTENT: CONTAINS A ONE-CHARACTER CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: PPD

DESC: BYTE 73

INTERNAL TAG: 008

DESC: BYTE 28, (BLANK) - NOT A GOVERNMENT PUBLICATION
      A - AUTONOMOUS OR SEMI-AUTONOMOUS COMPONENTS OF SOVEREIGN FEDERATIONS (E.G., THE SOVIET UNION, THE YUGOSLAV REPUBLIC,
          THE UNITED ARAB REPUBLIC AND MALAYSIA)
      C - MULTILOCAL (I.E., REGIONAL COMBINATIONS OF JURISDICTIONS BELOW THE STATE LEVEL)
      F - FEDERAL/NATIONAL (I.E., SOVEREIGN NATIONS, E.G., CANADA)
      I - INTERNATIONAL INTERGOVERNMENTAL BODIES
      L - LOCAL JURISDICTIONS (COUNTIES, CITIES, TOWNS, ETC.)
      M - MULTISTATE (I.E., REGIONAL COMBINATIONS OF JURISDICTIONS AT THE STATE, PROVINCIAL, TERRITORIAL, ETC. LEVEL)
      O - GOVERNMENT PUBLICATION (OR PRODUCTION) -- LEVEL UNDETERMINED
      S - STATE, PROVINCIAL, TERRITORIAL, DEPENDENT, ETC., JURISDICTIONS ***EITAG DESC CONTINUED IN NOTES FIELDS***

CHARACTER SET: EXPANDED 6-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO WILL BE USING CODE F, AS ALL PUBLICATIONS CATALOGED ARE FEDERAL.
       CONTINUATION OF EITAG DESC
       U - UNKNOWN IF ITEM IS GOVERNMENT PUBLICATION
       Z - GOVERNMENT PUBLICATION--LEVEL OTHER THAN CAN BE SPECIFIED BY OTHER CODE VALUES

ELEMENT: CONFERENCE PUBLICATION INDICATOR

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: INDICATES IF THE WORK CONSISTS OF THE PROCEEDINGS, REPORTS, OR SUMMARIES OF A CONFERENCE, MEETING OR SYMPOSIUM.

CONTENT: CONTAINS THE NUMERAL "0" OR "1" DEFINED FOR THE ELEMENT.

INTERNAL TAG: PPD

DESC: BYTE 74.

EXTERNAL TAG: 006

DESC: BYTE 29,
     CODES: 0 - NOT A CONFERENCE PUBLICATION   1 - CONFERENCE PUBLICATION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: FESTSCHRIFT INDICATOR

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: INDICATES WHETHER OR NOT THE WORK IS A FESTSCHRIFT.

CONTENT: CONTAINS THE NUMERAL "0" OR "1" DEFINED FOR THE ELEMENT.

INTERNAL TAG: FFD

DESC: BYTE 75.

EXTERNAL TAG: 008

DESC: BYTE 30.
     CODES: 0 - NOT A FESTSCHRIFT   1 - FESTSCHRIFT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: INDEX INDICATOR

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: SPECIFIES IF THE WORK CONTAINS AN INDEX TO ITS OWN CONTENTS.

CONTENT: CONTAINS THE NUMERAL "0" OR "1" DEFINED FOR THE ELEMENT.

INTERNAL TAG: FPD

DESC: BYTE 76.

EXTERNAL TAG: 008

DESC: BYTE 31,
      CODES: 0 - NO INDEX PRESENT   1 - INDEX PRESENT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: TRIGGERED BY INDEX STATEMENT IN 500 OR 504 FIELD.

ELEMENT: MAIN ENTRY IN BODY OF ENTRY INDICATOR

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: INDICATES WHETHER THE MAIN ENTRY IS ALSO FOUND IN THE BODY OF THE ENTRY REGARDLESS OF WHETHER IT IS THE SAME AS THE MAIN ENTRY OR DIFFERENT. (IN SOME CASES, THE NAME USED AS MAIN ENTRY IN A CATALOG RECORD MAY ALSO BE FOUND IN THE BODY OF THE ENTRY AS PART OF THE TITLE, STATEMENT OF RESPONSIBILITY, EDITION STATEMENT, OR IMPRINT STATEMENT. IN THAT CASE THE NAME IN THE TWO FIELDS COULD BE SIMILAR OR QUITE DIFFERENT).

CONTENT: CONTAINS THE NUMERAL "0" OR "1" DEFINED FOR THE ELEMENT.

INTERNAL TAG: FPD

DESC: BYTE 77.

EXTERNAL TAG: 008

DES : BYTE 32,
     CODES: 0 - MAIN ENTRY NOT IN BODY OF ENTRY   1 - MAIN ENTRY IN BODY OF ENTRY

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: FICTION INDICATOR

SOURCE ASPECT: GPOS

USE: MANDATORY

DEFN: INDICATES IF THE WORK IS FICTION.

CONTEN.: CONTAINS THE NUMERAL "0" (NOT FICTION).

INTERNAL TAG: FFD

DESC: BYTE 78.

EXTERNAL TAG: 008

DESC: BYTE 33,
      CODE: 0 ~ NOT FICTION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: BIOGRAPHY CODE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: INDICATES WHETHER OR NOT THE WORK IS A BIOGRAPHY OR AUTOBIOGRAPHY.

CONTENT: CONTAINS A ONE-CHARACTER CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: FFD

DESC: BYTE 79.

EXTERNAL TAG: 008

DESC: BYTE 34.
    CODES: BLANK - NO BIOGRAPHICAL MATERIAL
              A   - AUTOBIOGRAPHY
              B   - INDIVIDUAL BIOGRAPHY
              C   - COLLECTIVE BIOGRAPHY
              D   - CONTAINS BIOGRAPHICAL MATERIAL

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: LANGUAGE CODE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: GIVES THE LANGUAGE OF THE WORK.

CONTENT: THE LANGUAGE IS REPRESENTED BY A THREE CHARACTER LOWERCASE ALPHABETIC CODE AS GIVEN IN APPENDIX II.C
         (LIST OF LANGUAGES AND LANGUAGE CODES) OF THE MARC FORMATS FOR BIBLIOGRAPHIC DATA.

INTERNAL TAG: FFD

DESC: BYTES 48-50.

EXTERNAL TAG: 008

DESC: BYTES 35-37.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IF THE WORK IS IN MORE THAN ONE LANGUAGE, THE CODE FOR THE PREDOMINANT LANGUAGE IS RECORDED IN THIS FIELD, AND THE CODES
       FOR ALL THE LANGUAGES, INCLUDING THE PREDOMINANT LANGUAGE, ARE RECORDED IN FIELD 041. IF THERE IS NO PREDOMINANT
       LANGUAGE, THE LANGUAGES ARE RECORDED IN ALPHABETIC ORDER IN FIELD 041, AND THE FIRST ONE IS RECORDED IN THE FIELD.
       IF THE WORK IS A TRANSLATION, THE CODE FOR THE LANGUAGE OF THE TRANSLATION IS GIVEN IN THIS BYTE. BOTH THE LANGUAGE
       OF THE TRANSLATION AND THE LANGUAGE OF THE ORIGINAL ARE GIVEN IN FIELD 041.

ELEMENT: MODIFIED RECORD CODE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: INDICATES WHETHER OR NOT THE MARC RECORD CONTAINS THE EXACT INFORMATION FOUND ON THE CORRESPONDING MANUAL CATALOGING
    COPY OR WHETHER THE MARC RECORD AND THE CORRESPONDING MANUAL CATALOGING COPY FOR A NONROMAN LANGUAGE ITEM ARE GIVEN
    IN A ROMANIZED FORM.

CONTENT: CONTAINS A ONE-CHARACTER CODE DEFINED FOR THE ELEMENT.

INTERNAL TAG: FFD

DESC: BYTE 89.

EXTERNAL TAG: 008

DESC: BYTE 38, CODES:
    (BLANK) - RECORD IS NOT MODIFIED
    X   - RECORD CONTAINS CHARACTERS OTHER THAN ON THE CORRESPONDING MANUAL CATALOGING COPY BECAUSE THEY ARE NOT IN THE
             CHARACTER SET, E.G., NONROMAN CHARACTERS, MATHEMATICAL SYMBOLS, ETC.
    0   - RECORD IS COMPLETELY ROMANIZED AND THE CORRESPONDING MANUAL CATALOGING COPY IS ALSO ROMANIZED

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: CATALOGING SOURCE CODE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: INDICATES THE CATALOGING SOURCE OF THE RECORD.

CONTENT: CONTAINS THE ALPHABETIC CHARACTER "D" (NON-LC CATALOGING).

INTERNAL TAG: FFD

DESC: BYTE 90.

EXTERNAL TAG: 008

DESC: BYTE 39,
     CODE: D - NON-LC CATALOGING

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

PAGE NUMBER 0144

ELEMENT: LC CARD NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEF4: CONTAINS THE LC CARD NUMBER.

CONTENT: CONTAINS THE LC CARD NUMBER, WHICH IS A TWELVE-CHARACTER NUMBER. THE FIRST THREE POSITIONS, (0-A_, (ALPHABETIC ...)
WHICH CONTAIN BLANKS AS PREFIXES ARE NEVER PRESENT. POSITIONS THREE AND FOUR (YEAR) CONTAIN TWO DIGITS FOR THE YEAR.
POSITIONS 5-10 (SERIAL DIGITS) CONTAIN ONE TO SIX SERIAL DIGITS, RIGHT JUSTIFIED, WITH LEADING ZERO FILL. THE YEAR AND
SERIAL DIGITS PORTIONS OF THE CARD NUMBER ARE THE TWO ELEMENTS REQUIRED TO IDENTIFY A BIBLIOGRAPHIC RECORD UNIQUELY.
THE CARD NUMBER MAY ALSO CONTAIN A REVISION DATE, I.E., A DATE THAT SPECIFIED THE LATEST DATE THAT THE BIBLIOGRAPHIC
DATA IN THE RECORD UNDERWENT A MAJOR CHANGE. THIS DATA, SEPARATED FROM THE CARD NUMBER BY TWO SLASHES (//), DOES NOT
AFFECT THE UNIQUENESS OF THE CARD NUMBER. THE DATA CONSISTS OF A LOWERCASE "R", TWO DIGITS FOR THE (and the according),
AND, IF THE CARD HAS NEVER BEEN REPRINTED MORE THAN ONCE, A DIGIT INDICATING THE NUMBER OF TIMES THE CARD HAS BEEN
REPRINTED. THIS DATA IS NEVER MORE THAN FOUR DIGITS IN LENGTH. THERE IS NEVER MORE THAN ONE LC CARD NUMBER IN A
RECORD.

INTERNAL TAG: LCN

DESC: N/A

EXTERNAL TAG: 010

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.   SUBFIELD: A - LC CARD NUMBER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: INTERNATIONAL STANDARD BOOK NUMBER (ISBN)

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS THE INTERNATIONAL STANDARD BOOK NUMBER (ISBN), TERMS OF AVAILABILITY, CANCELLED/INVALID ISBNS, AND, IN SOME INSTANCES, BINDING INFORMATION.

CONTENT: AN ISBN CONSISTS OF 10 DIGITS SEPARATED INTO FOUR FUNCTIONAL PARTS AS FOLLOWS: 1) ONE OR MORE DIGITS TO IDENTIFY A COUNTRY OR GROUP OF COUNTRIES IN WHICH THE ITEM WAS PUBLISHED; 2) TWO TO SEVEN DIGITS FOR THE PUBLISHER'S PREFIX, 3) ONE OR MORE DIGITS TO IDENTIFY A PARTICULAR TITLE AND TO EXPAND THE NUMBER TO NINE DIGITS; AND 4) A CHECK DIGIT FOR COMPUTER VALIDITY CHECK. SINCE THE CHECK DIGIT SYSTEM (MODULUS 11) SOMETIMES REQUIRES A CHECK DIGIT OF "10," IT IS NECESSARY TO CARRY THE ROMAN NUMERIAL "X" IN THE CHECK DIGIT POSITION FOR "10" TO STAY WITHIN THE LIMITATIONS OF TEN DIGITS. AACR2 1.8B1: GIVE THE INTERNATIONAL STANDARD BOOK NUMBER (ISBN) ... FOR THE ITEM BEING DESCRIBED. IF AN ITEM BEARS TWO OR MORE SUCH NUMBERS, RECORD MORE THAN ONE NUMBER AND ADD A QUALIFICATION AS PRESCRIBED IN 1.8E. GIVE A NUMBER FOR A COMPLETE SET BEFORE THE NUMBER(S) FOR THE PART(S). GIVE NUMBERS FOR PARTS IN THE ORDER OF THE PARTS. AACR2 1.8D1: GIVE THE TERMS ON WHICH THE ITEM IS AVAILABLE. THESE TERMS CONSIST OF THE PRICE (GIVEN IN NUMERALS WITH STANDARD ABBREVIATIONS) IF THE ITEM IS FOR SALE, OR A BRIEF STATEMENT IF THE ITEM IS NOT FOR SALE. AACR2 1.8E1: ADD AFTER THE STANDARD NUMBER OR TERMS OF AVAILABILITY, AS APPROPRIATE, A BRIEF QUALIFICATION (INCL. BINDING INFORMATION) WHEN AN ITEM BEARS TWO OR MORE STANDARD NUMBERS AND WHEN THE TERMS OF AVAILABILITY NEED QUALIFICATION. AACR2 1.8E2: IF THERE IS NO STANDARD NUMBER, GIVE THE TERMS OF AVAILABILITY BEFORE ANY QUALIFICATION. EACH FIELD 020 CONTAINS ALL THE INFORMATION RELEVANT TO ONE ISBN, OR IF NO ISBN EXISTS, RELEVANT TO ONE ITEM. WITHIN A FIELD, ONLY SUBFIELD #Z IS REPEATABLE. THE SUBFIELD FOR THE CORRECT FORM OF A NUMBER IS ALWAYS GIVEN FIRST FOLLOWED BY ANY SUBFIELDS FOR CANCELLED OR INVALID FORMS, IF APPLICABLE. (AN INVALID FORM OF A NUMBER IS ONE THAT DOES NOT PASS THE CHECK DIGIT VALIDATION ROUTINE). IF ONLY AN INVALID FORM OF A NUMBER IS PRESENT, DATA RELEVANT TO A SINGL. ITEM IS GIVEN IN ONE SUBFIELD #C IN ONE 020 FIELD AND DATA RELEVANT TO ANOTHER ITEM IS GIVEN IN ANOTHER SUBFIELD #C IN A SUBSEQUENT 020 FIELD.

INTERNAL TAG: SBN

DESC: N/A

EXTERNAL TAG: 020

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS. SUBFIELDS: A - INTERNATIONAL STANDARD BOOK NUMBER   C - TERMS OF AVAILABILITY Z - CANCELLED/INVALID ISBN

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS

DATA SOURCE: DOCUMENT   STAFF

NOTES: THE LEGEND "ISBN" OR "ISBN (INVALID)" ARE NOT CARRIED IN THE MACHINE RECORD BUT ARE GENERATED ON OUTPUT. GPO USES THE SUPT OF DOCS SALES PRICE IN SUBFIELD C.

ELEMENT: STANDARD TECHNICAL REPORT NUMBER (STRN)

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS THE STANDARD TECHNICAL REPORT NUMBER (STRN) ASSIGNED TO THE TECHNICAL REPORT. A STRN IS AN COMPACT, FORMATTED, ALPHABETIC DESIGNATION THAT IS USUALLY THE PRIMARY MEANS OF IDENTIFYING A SPECIFIC TECHNICAL .

CONTENT: CONTAINS A STANDARD TECHNICAL REPORT NUMBER (STRN) OR A CANCELLED/INVALID STRN. THE STRN IS CONSIDERED WITHIN   . AMERICAN NATIONAL STANDARDS INSTITUTE, AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN), ANSI Z39.23-1974. THE STRN IS COMPOSED OF THREE PARTS: 1) REPORT CODE - TWO TO FOURTEEN ALPHABETIC CHARACTERS THAT DESIGNATE THE ISSUING ORGANIZATION AND IN SOME CASES A SERIES; 2) SEQUENTIAL GROUP - ONE TO SEVEN NUMERIC CHARACTERS ASSIGNED IN SEQUENCE BY EACH REPORT-ISSUING ENTITY; 3) LOCAL SUFFIX - OPTIONAL FIELD IN WHICH THE ISSUING ORGANIZATION MAY PLACE ADDITIONAL INFORMATION. THE REPORT CODE AND SEQUENTIAL GROUP ARE SEPARATED BY A HYPHEN (-), AND THE SEQUENTIAL GROUP AND LOCAL SUFFIX ARE SEPARATED BY AN AMPERSAND (&) OR A PLUS SIGN (+). SLASHES (/) MAY BE USED AS SUBSTITUTE   WITHIN THE REPORT CODE (A MAXIMUM OF TWO) AND WITHIN THE SEQUENTIAL GROUP (AFTER THE SECOND DIGIT).

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 027

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELDS:
    A - STANDARD TECHNICAL REPORT NUMBER (STRN)
    3 - CANCELLED/INVALID STRN

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES: DECISION ON GPO USE PENDING ADDITIONAL DEFINITION OF CONTENT.

ELEMENT: CODED MATHEMATICAL DATA

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: USED FOR MATHEMATICAL DATA CODES THAT ARE AN IMPORTANT ACCESS POINT FOR CARTOGRAPHIC MATERIALS. THE CODES ARE BASED ON DATA RECORDED IN FIELD 255 (MATHEMATICAL DATA FIELD).

CONTENT: CONTAINS MATHEMATICAL DATA CODES. A LOWERCASE ONE-CHARACTER ALPHABETIC CODE IS USED TO SPECIFY THE TYPE OF SCALE IN SUBFIELD "A." THE CODES DEFINED ARE: "A" (LINEAR SCALE); "B" (ANGULAR SCALE); AND "Z" (OTHER (e.g., TIME SCALE, QUANTITATIVE STATISTICAL SCALE)). IF A SINGLE SCALE IS USED, THE FIRST INDICATION IS SET TO "1" AND THE DESCRIPTION OF THE REPRESENTATIVE FRACTION IS RECORDED IN SUBFIELD "B". IF THERE ARE TWO OR MORE SCALES, EACH IS RECORDED IN A SEPARATE SUBFIELD "B" WITH THE FIRST INDICATOR SET TO "2." IF MULTIPLE OR VARYING SCALES ARE RECORDED AS A RANGE, THE SMALLER DENOMINATOR IS RECORDED FIRST, THE LARGER SECOND, EACH IN A SEPARATE SUBFIELD "B," AND THE FIRST INDICATOR IS SET AT "3." THE COORDINATES ARE RECORDED IN SUBFIELDS "D," "E," "F," AND "G" IN THE FORM "HDDDMMSS," WHERE "H" REPRESENTS THE HEMISPHERE "N," "E," "W," OR "S," "DDD" REPRESENTS DEGREE, "MM" REPRESENTS MINUTE, AND "SS" REPRESENTS SECOND. THE DEGREE, MINUTE AND SECOND ELEMENTS ARE EACH RIGHT JUSTIFIED WITH LEADING ZEROS.

INTERNAL TAG: CBD

DESC: N/A

EXTERNAL TAG: 034

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF SCALE:

0 - SCALE INDETERMINABLE/NO SCALE RECORDED	1 - SINGLE SCALE
2 - MULTIPLE SCALES	3 - RANGE OF SCALES

SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK. SUBFIELDS:

A - CATEGORY OF SCALE	B - CONSTANT RATIO LINEAR HORIZONTAL SCALE
C - CONSTANT RATIO LINEAR VERTICAL SCALE	D - COORDINATES - WESTERNMOST LONGITUDE
E - COORDINATES EASTERNMOST LONGITUDE	F - COORDINATES - NORTHERNMOST LATITUDE
G - COORDINATES - SOUTHERNMOST LATITUDE	M - ANGULAR SCALE
J - DECLINATION - NORTHERN LIMIT	K - DECLINATION - SOUTHERN LIMIT
M - RIGHT ASCENSION - EASTERN LIMIT	N - RIGHT ASCENSION - WESTERN LIMIT
	P - EQUINOX

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS

DATA SOURCE: STAFF

NOTES: IN THE NEAR FUTURE, FIRST INDICATOR VALUE "2" WILL NO LONGER BE VALID.

ELEMENT: STOCK NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS THE GOVERNMENT PRINTING OFFICE STOCK NUMBER, CODE "GPO", TERMS OF AVAILABILITY (E.G., PRICE), AND FORM
OF ISSUE.

CONTENT: SUBFIELD "A" (STOCK NUMBER) CONTAINS THE GPO STOCK NUMBER; SUBFIELD B (SOURCE (AGENCY ASSIGNING THE STOCK NUMBER))
THE UPPERCASE THREE CHARACTER ALPHABETIC CODE "GPO." BOTH SUBFIELDS ARE REQUIRED IN THIS FIELD. SUBFIELD "C" (TERMS OF
AVAILABILITY) CONTAINS THE PRICE, AND SUBFIELD "F" (FORM OF ISSUE) THE FORM OF ISSUE.

INTERNAL TAG: STR

DESC: N/A

EXTERNAL TAG: 037

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELDS: A - STOCK NUMBER
            B - SOURCE (AGENCY ASSIGNING THE STOCK NUMBER)
            C - TERMS OF AVAILABILITY
            F - FORM OF ISSUE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES: IF FIELD 020 IS IN THE RECORD AND CONTAINS A SUBFIELD "C" (TERMS OF AVAILIBILITY), THE "TERMS OF AVAILABILITY" ARE NOT
INPUT AS SUBFIELD "C" IN FIELD 037.

ELEMENT: CATALOGING SOURCE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: USED IN CONJUNCTION WITH FIELD 008, CHARACTER POSITION 39 (CATALOGING SOURCE CODE) TO DESIGNATE THE INSTITUTION OR ORGANIZATION WHICH PERFORMED OR PROVIDED THE CATALOGING, TRANSCRIBED THE DATA INTO MACHINE-READABLE FORM, AND/OR MODIFIED THE BIBLIOGRAPHIC DATA IN AN EXISTING MACHINE-READABLE RECORD.

CONTENT: CONTAINS NATIONAL UNION CATALOG (NUC) SYMBOLS DENOTING THE INSTITUTION OR ORGANIZATION WHICH PERFORMED OR PROVIDED THE CATALOGING, TRANSCRIBED THE DATA INTO MACHINE-READABLE FORM, AND/OR MODIFIED THE BIBLIOGRAPHIC DATA IN AN EXISTING MACHINE-READABLE RECORD. SUBFIELD "A" (ORIGINAL CATALOGING AGENCY OTHER THAN LC) CONTAINS THE NUC SYMBOL OF THE CATALOGING AGENCY. IF LC HAS USED GPO CATALOGING AS THE SOURCE OF DESCRIPTIVE INFORMATION ON ITS RECORDS, "DGPO/DLC" APPEARS IN SUBFIELD "A." SUBFIELD "C" (TRANSCRIBING AGENCY CODE) CONTAINS THE NUC SYMBOL OF THE AGENCY THAT TRANSCRIBED INTACT THE BIBLIOGRAPHIC INFORMATION FROM THE CATALOGING SOURCE INTO MACHINE-READABLE FORM. SUBFIELD "D" (MODIFYING AGENCY CODE) CONTAINS THE NUC SYMBOL OF THE AGENCY THAT MODIFIED ANY BIBLIOGRAPHIC INFORMATION OF THE CATALOGING SOURCE. IF THE SAME OR ANOTHER AGENCY LATER MODIFIES THE MACHINE-READABLE RECORD, THE MODIFYING AGENCY'S NUC SYMBOL IS RECORDED IN ANOTHER SUBFIELD "D." THE SYMBOL "DGPO" MUST BE PRESENT IN ONE OF THE THREE SUBFIELDS. SUBFIELDS "A" AND "C" MUST ALWAYS BE PRESENT IN THE FIELD. THE FIELD IS NOT REPEATABLE; ONLY SUBFIELD "D" IS REPEATABLE.

INTERNAL TAG: CAS

DESC: N/A

EXTERNAL TAG: 040

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
        SUBFIELDS: A - ORIGINAL CATALOGING AGENCY OTHER THAN LC
                     C - TRANSCRIBING AGENCY CODE
                     D - MODIFYING AGENCY CODE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: MACHINE

NOTES:

ELEMENT: LANGUAGE CODE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: USED IN ADDITION TO FIELD 008, CHARACTER POSITIONS 35-37, WHEN THERE IS MORE THAN ONE LANGUAGE ASSOCIATED WITH THE WORK.

CONTENT: EACH LANGUAGE IS REPRESENTED BY A THREE CHARACTER LOWERCASE ALPHABETIC CODE AS GIVEN IN APPENDIX IXX (CODE OF THE AND LANGUAGE CODES) OF THE MARC FORMATS FOR BIBLIOGRAPHIC DATA. WHEN A WORK HAS BEEN TRANSLATED (I.E., WHEN ITEM IS "1" (ITEM IS OR INCLUDES A TRANSLATION)), THE CODES FOR THE LANGUAGES ARE RECORDED IN SUBFIELD "A" (LANGUAGE OF TEXT/SOUNDTRACK OR SEPARATE TITLE) IN THE FOLLOWING ORDER: 1) LANGUAGE OF WORK THAT HAS BEEN TRANSLATED, 2) LANGUAGE FROM WHICH IS WAS TRANSLATED, AND 3) ORIGINAL LANGUAGE. (IN MOST CASES, ITEMS 2 AND 3 ARE THE SAME, SO THAT ONLY TWO LANGUAGES ARE RECORDED.) FOR MULTILINGUAL WORKS, THE CODES FOR THE LANGUAGES OF THE TEXT ARE RECORDED IN SUBFIELD "A" IN THE ORDER OF THEIR PREDOMINANCE IN THE TEXT. IF NO LANGUAGE IS PREDOMINANT, THEY ARE RECORDED IN ALPHABETICAL ORDER. A MAXIMUM OF SIX CODES FOR THE LANGUAGES OF THE TEXT CAN BE RECORDED IN SUBFIELD "A." IF THE WORK INCLUDES SUMMARIES IN LANGUAGES OTHER THAN THAT OF THE TEXT, THE CODES FOR THESE LANGUAGES ARE RECORDED IN ALPHABETICAL ORDER IN SUBFIELD "B" (LANGUAGE CODE OF SUMMARY OR ABSTRACT). THE FIELD AND THE SUBFIELDS ARE NOT REPEATABLE. SUBFIELD "A" MUST ALWAYS BE PRESENT IN THE FIELD. THE FIRST LANGUAGE CODE IN SUBFIELD "A" IS THE SAME CODE THAT IS RECORDED IN 008, 35-37.

INTERNAL TAG: LAN

DESC: N/A

EXTERNAL TAG: 041

DESC: FIRST INDICATOR SPECIFIES WHETHER WORK IS OR INCLUDES A TRANSLATION:
        0 - ITEM IS NOT A TRANSLATION OR DOES NOT INCLUDE A TRANSLATION
        1 - ITEM IS OR INCLUDES A TRANSLATION
     SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK
     SUBFIELDS:
        A - LANGUAGE CODE OF TEXT/SOUNDTRACK OR SEPARATE TITLE
        B - LANGUAGE CODE OF SUMMARY OR ABSTRACT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: THIS FIELD IS USED WHEN ANY OF THE FOLLOWING CONDITIONS EXIST: 1) THE WORK IS A TRANSLATION; 2) THE LANGUAGE OF THE TEXT IS MULTILINGUAL; AND/OR 3) THE LANGUAGE OF THE SUMMARIES OR ABSTRACTS DIFFERS FROM THE LANGUAGE OF THE TEXT.

ELEMENT: GEOGRAPHIC AREA CODES

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS THE GEOGRAPHIC AREA CODE. THIS CODE WAS DEVELOPED BY THE LIBRARY OF CONGRESS TO FACILITATE RETRIEVAL OF
      RECORDS FOR THOSE INDIVIDUALS DESIRING A GEOGRAPHIC APPROACH TO BIBLIOGRAPHIC MATERIALS. THE GEOGRAPHIC CODE IS
      APPLIED TO WORKS FOR WHICH THE ASSIGNED SUBJECT HEADING CONTAINS A GEOGRAPHIC TERM IN ANY FORM OR POSITION, OR WHEN
      THE WORK HAS A GEOGRAPHIC ORIENTATION. THE CODING SCHEME PROVIDES A HIERARCHICAL BREAKDOWN OF GEOGRAPHICAL AND/OR
      POLITICAL ENTITIES. A GREATER LEVEL OF GEOGRAPHICAL AREAS CAN BE RECORDED IN FIELD 052 (GEOGRAPHIC CLASSIFICATION
      CODE).

CONTENT: EACH GEOGRAPHIC AREA IS REPRESENTED BY A SEVEN CHARACTER CODE CONSISTING OF LOWERCASE LETTERS AND HYPHENS AS GIVEN IN
         APPENDIX II.B (GEOGRAPHIC AREA CODES) OF THE MARC FORMATS FOR BIBLIOGRAPHIC DATA. NO MORE THAN THREE CODES MAY BE
         ASSIGNED. THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: GAC

DESC: N/A

EXTERNAL TAG: 043

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
      SUBFIELD: A - GEOGRAPHIC AREA CODE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: FIELD REQUIRED WHEN DOCUMENT SUBJECT CONTENT IS GEOGRAPHICAL IN NATURE.

ELEMENT: LIBRARY OF CONGRESS CALL NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS AN LC CALL NUMBER (CONSISTING OF A CLASS NUMBER AND AN ITEM NUMBER) OR AN LC CLASSIFICATION NUMBER ONLY ASSIGNED BY THE LIBRARY OF CONGRESS.

CONTENT: CONTAINS AN LC CALL NUMBER OR CLASSIFICATION NUMBER ASSIGNED BY LC FROM THE LC CLASSIFICATION SCHEDULES. SUBFIELD "A" (CLASSIFICATION NUMBER) CONTAINS THE CLASS NUMBER PORTION OF THE LC CALL NUMBER. AN ITEM NUMBER ASSOCIATED WITH THE LC CLASSIFICATION NUMBER IS RECORDED IN SUBFIELD "B" (ITEM NUMBER). NEITHER THE FIELD NOR THE SUBFIELDS ARE REPEATABLE.

INTERNAL TAG: CAL

DESC: N/A

EXTERNAL TAG: 050

DESC: FIRST INDICATOR SPECIFIES THE EXISTENCE IN LC COLLECTION:
         0 - ITEM IS IN LC
         1 - ITEM IS NOT IN LC
        SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK.
        SUBFIELDS: A - CLASSIFICATION NUMBER
                    B - ITEM NUMBER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IN THE NEAR FUTURE, THE SECOND INDICATOR IS TO BE DEFINED. VALUE "BLANK" WILL MEAN "NOT STATED (LC ASSIGNED)" (FOR EXISTING RECORDS) AND VALUE "0" WILL BE DEFINED AS "ASSIGNED BY LC." LC CALL NUMBERS ARE CREATED BY THE STAFF OF THE LIBRARY OF CONGRESS.

ELEMENT: COPY, ISSUE, OFFPRINT STATEMENT

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: RECORDS INFORMATION RELATING TO ADDITIONAL COPIES, ISSUES, OFFPRINTS, DETACHED COPIES, ETC. WHICH ARE ADDED TO LIBRARY OF CONGRESS RECORDS. THE FIELD IS FREQUENTLY USED FOR LIBRARY OF CONGRESS PUBLICATIONS WHEN DIFFERENT CALL NUMBERS ARE ASSIGNED TO SECOND COPIES OR SETS, SUCH AS WHEN ONE COPY IS GIVEN A CALL NUMBER REFLECTING THE SUBJECT MATTER OF THE PUBLICATION, AND ADDITIONAL COPIES ARE GIVEN A CALL NUMBER ASSIGNED TO PUBLICATIONS OF LC. THE FIELD IS ALSO USED TO RECORD A MICROFORM SHELF NUMBER WHEN AN ADDITIONAL COPY OF A WORK EXISTS IN LC IN MICROFORM. IN ADDITION, INFORMATION PERTAINING TO A MICROFORM COPY REPLACING A SECOND, THIRD, ETC. LC HARD COPY IS RECORDED IN THIS FIELD.

CONTENT: CONTAINS AN LC CALL NUMBER OR A MICROFORM SHELF NUMBER, AND COPY INFORMATION. SUBFIELD "A" (CLASSIFICATION NUMBER) CONTAINS A CLASS NUMBER OR THE WORD "LAW," "MICROFILM," ETC. SUBFIELD "B" (ITEM NUMBER) CONTAINS THE BOOK NUMBER OR A MICROFORM NUMBER; SUBFIELD "C" (COPY INFORMATION) CONTAINS COPY INFORMATION, E.G., "COPY 2." SUBFIELDS "A" AND "C" ARE REQUIRED IN THIS FIELD.

INTERNAL TAG: COP

DESC: N/A

EXTERNAL TAG: 051

DESC: INDICATORS NOT DEFINED - CONTAINS BLANKS.
        SUBFIELDS: A - CLASSIFICATION NUMBER
                    B - ITEM NUMBER
                    C - COPY INFORMATION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STANDARD

NOTES: THIS FIELD DOES NOT INCLUDE SUPPLEMENTS, INDEXES, ETC., WHICH ARE RELATED TO, BUT NOT THE SAME AS, THE WORK IN THE MAIN RECORD. GPO WILL USE ONLY WHEN THE FIELD IS PRESENT IN AN EXISTING RECORD.

ELEMENT: GEOGRAPHIC CLASSIFICATION CODE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS A CODE REPRESENTING THE GEOGRAPHIC AREA AND MAY ALSO CONTAIN CODES(S) REPRESENTING THE SUBAREA. THIS FIELD
PROVIDES GEOGRAPHIC ACCESS TO AN ITEM AT A LEVEL OF DETAIL NOT POSSIBLE THROUGH THE USE OF THE GEOGRAPHIC AREA CODE IN
FIELD 043.

CONTENT: CONTAINS A GEOGRAPHIC CLASSIFICATION CODE(S). THE GEOGRAPHIC CLASSIFICATION CODE IS BASED ON THE LC CLASSIFICATION
SCHEDULE G AND EXPANDED CUTTER LISTS FOR PLACE NAMES WHICH ARE MAINTAINED BY THE GEOGRAPHY AND MAP DIVISION OF THE
LIBRARY OF CONGRESS. THE CODE IS ALPHAMERIC. THE AREA CODE IN SUBFIELD "A" (GEOGRAPHIC CLASSIFICATION CODE) CONSISTS
OF FOUR TO SIX NUMERICS DERIVED FROM THE LC CLASSIFICATION SCHEDULE G BY DROPPING THE "G" FROM THE CLASSIFICATION.
THE SUBAREA CODE IN SUBFIELD "B" (GEOGRAPHIC CLASSIFICATION SUBAREA CODE) CONSISTS OF AN ALPHABETIC AND ONE OR MORE
NUMERICS DERIVED FROM THE LC CLASSIFICATION SCHEDULE G OR THE EXPANDED CUTTER LISTS.

INTERNAL TAG: NCC

DESC: N/A

EXTERNAL TAG: 052

DESC. INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELDS: A - GEOGRAPHIC CLASSIFICATION AREA CODE
                B - GEOGRAPHIC CLASSIFICATION SUBAREA CODE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: USE IS MANDATORY FOR ATLASES.

ELEMENT: NATIONAL LIBRARY OF MEDICINE CALL NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS A CLASS NUMBER OR A CALL NUMBER ASSIGNED BY THE NATIONAL LIBRARY OF MEDICINE.

CONTENT: CONTAINS A CLASS NUMBER OR A CALL NUMBER ASSIGNED BY NLM. NLM APPLIES THE NLM CLASSIFICATION SCHEDULE FOR PRECLINICAL SCIENCES AND MEDICINE AND THE LC CLASSIFICATION SCHEDULES FOR PERIPHERAL AND RELATED TOPICS. THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: NLM

DESC: N/A

EXTERNAL TAG: 060

DESC: FIRST INDICATOR SPECIFIES THE EXISTENCE IN NLM COLLECTION: 0 - ITEM IS IN NLM
        1 - ITEM IS NOT IN NLM   SECOND INDICATOR IS NOT DEFINED - CONTAINS A
        BLANK
        SUBFIELD: A - CLASSIFICATION NUMBER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IN THE NEAR FUTURE, THE SECOND INDICATOR IS TO BE DEFINED. VALUE "BLANK" WILL READ "NOT STATED (NLM ASSIGNED)" (FOR EXISTING RECORDS) AND VALUE "0" WILL BE DEFINED AS "ASSIGNED BY NLM." CREATED BY THE STAFF OF THE NATIONAL LIBRARY OF MEDICINE.

ELEMENT: NATIONAL AGRICULTURAL LIBRARY CALL NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS A CLASS NUMBER, A CALL NUMBER, OR AN ACCESSION NUMBER ASSIGNED BY THE NATIONAL AGRICULTURAL LIBRARY.

CONTENT: CONTAINS A CLASS NUMBER, A CALL NUMBER, OR AN ACCESSION NUMBER ASSIGNED BY NAL. IN 1965, NAL BEGAN USING LIBRARY OF
    CONGRESS CLASSIFICATION FOR ALL NEWLY CATALOGED MATERIALS. RECENTLY, NAL BEGAN ASSIGNING SEQUENTIAL ACCESSION
    NUMBERS TO DISSERTATIONS AND ABSTRACTS. PREFIXES MAY OCCUR IN CALL NUMBERS. SUBFIELD "b" (ITEM NUMBER) IS USED TO
    DESIGNATE A SPACE IN A CALL NUMBER.

INTERNAL TAG: NAL

DESC: N/A

EXTERNAL TAG: 070

DESC: FIRST INDICATOR SPECIFIES THE EXISTENCE IN NAL COLLECTION: 0 - ITEM IS IN NAL
    1 - ITEM IS NOT IN NAL   SECOND INDICATOR IS NOT DEFINED - CONTAINS A
    BLANK.
    SUBFIELDS: A - CLASSIFICATION NUMBER   B - ITEM NUMBER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO WILL USE THIS FIELD IS PRESENT IN AN EXISTING DATA BASE RECORD.

ELEMENT: GPO ITEM NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS THE GOVERNMENT PRINTING OFFICE (GPO) ITEM NUMBER. NOTE THAT THE GPO ITEM NUMBER IS NOT THE SAME AS THE UNIQUE NUMBER THAT IDENTIFIES EACH ENTRY IN THE MONTHLY CATALOG. THE ITEM NUMBER IS USED TO MANAGE THE DISTRIBUTION OF PUBLICATIONS TO LIBRARIES WITHIN GPO'S DEPOSITORY LIBRARY SYSTEM AND RELATES TO CATEGORIES OF PUBLICATIONS INSTEAD OF SINGLE PUBLICATIONS.

CONTENT: CONTAINS THE GPO ITEM NUMBER. ONLY ONE ITEM NUMBER MAY BE RECORDED.

INTERNAL TAG: ITM

DESC: N/A

EXTERNAL TAG: 074

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELD: A - GPO ITEM NUMBER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: DEWEY DECIMAL CLASSIFICATION NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS A DEWEY DECIMAL CLASSIFICATION NUMBER (S) ASSIGNED BY THE LIBRARY OF CONGRESS AND THE EDITION NUMBER OF THE
     DEWEY SCHEDULES FROM WHICH THE CLASSIFICATION WAS ASSIGNED.

CONTENT: CONTAINS A DEWEY DECIMAL CLASSIFICATION NUMBER (S) ASSIGNED BY LC AND THE EDITION NUMBER OF THE DEWEY SCHEDULES FROM
     WHICH THE CLASSIFICATION WAS ASSIGNED. SUBFIELD "A" (DEWEY DECIMAL CLASSIFICATION NUMBER) CONTAINS THE DEWEY NUMBER.
     THE NUMBER MAY BE DIVIDED INTO AS MANY AS THREE SEGMENTS BY THE SLASH (/) CHARACTER. SUBFIELD "2" (SOURCE (I.E.,
     EDITION NUMBER)) SPECIFIES THE EDITION OF THE DEWEY SCHEDULES FROM WHICH THE CLASSIFICATION WAS ASSIGNED; CURRENTLY,
     "19" (FOR THE 19TH EDITION) APPEARS IN THE SUBFIELD. SUBFIELDS "A" AND "2" MUST ALWAYS BE PRESENT IN THE FIELD.
     THE FIELD IS NOT REPEATABLE; ONLY SUBFIELD "A" IS REPEATABLE.

INTERNAL TAG: DDC

DESC: N/A

EXTERNAL TAG: 082

DESC: FIRST INDICATOR SPECIFIER THE TYPE OF EDITION: 0 - FULL EDITION
     SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK
     SUBFIELDS: A - DEWEY DECIMAL CLASSIFICATION NUMBER
                 2 - SOURCE (I.E., EDITION NUMBER)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: IN THE NEAR FUTURE, THE SECOND INDICATOR IS TO BE DEFINED. VALUE "BLANK" WILL MEAN "NOT STATED (LC ASSIGNED)"
     (FOR EXISTING RECORDS) AND VALUE "0" (ZERO) WILL BE DEFINED AS "ASSIGNED BY LC." ASSIGNED AND CREATED BY LC STAFF.

ELEMENT: GOVERNMENT DOCUMENT_CLASSIFICATION_NUMBER

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONTAINS THE SUPERINTENDENT OF DOCUMENTS_NUMBER AND CODE "SUDOCS."

CONTENT: SUBFIELD "A" (GOVERNMENT DOCUMENT CLASSIFICATION NUMBER) CONTAINS THE SUPERINTENDENT OF DOCUMENTS NUMBER. THE NUMBER
     BEGINS WITH ALPHABETIC CHARACTER(S). A SPACE APPEARS BETWEEN ANY LETTER OR NUMBER NOT SEPARATED BY PUNCTUATION, AND IN
     FRONT OF PARENTHETICAL QUALIFYING INFORMATION. SUBFIELD "2" (SOURCE (I.E., GOVERNMENT DOCUMENT CLASSIFICATION SCHEME))
     CONTAINS THE LOWERCASE FIVE CHARACTER ALPHABETIC CODE "SUDOCS." BOTH SUBFIELDS ARE REQUIRED IN THIS FIELD.

INTERNAL TAG: SDC

DESC: N/A

EXTERNAL TAG: 086

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
     SUBFIELDS: A - GOVERNMENT DOCUMENT CLASSIFICATION NUMBER
               2 - SOURCE (I.E., GOVERNMENT DOCUMENT CLASSIFICATION SCHEME)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES: THE TERMINOLOGY "SUPT. OF DOCS. NO.:" IS NOT CARRIED IN THE MACHINE RECORD BUT IS GENERATED ON OUTPUT.

ELEMENT: REPORT NUMBER

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS REPORT NUMBERS FOUND ON TECHNICAL REPORTS THAT ARE NOT STANDARD TECHNICAL REPORT NUMBERS (STRN). STANDARD
TECHNICAL REPORT NUMBERS ARE RECORDED IN FIELD 027.

CONTENT: CONTAINS A REPORT NUMBER. MORE THAN ONE MAY BE PRESENT.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 088

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELD: A - REPORT NUMBER.

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES: FIELD IS NOT USED FOR A REPORT NUMBER ASSOCIATED WITH A SERIES STATEMENT.

ELEMENT: MAIN ENTRY - PERSONAL NAME

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFS: CONTAINS A PERSONAL NAME USED AS A MAIN ENTRY. ENTRIES FOR WORDS, PHRASES, INITIALS, ASTERISKS OR OTHER SYMBOLS USED BY AN AUTHOR TO CONCEAL HIS IDENTITY ARE CONSIDERED PERSONAL NAMES.

CONTENT: CONTAINS A PERSONAL NAME USED AS A MAIN ENTRY. THE PERSONAL NAME MAY CONSIST OF WORDS, PHRASES, INITIALS, SEPARATE LETTERS, NUMERALS, OR CONSIST PRIMARILY OF INITIALS. PERSONAL NAMES ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 22 OF AACR2 (HEADINGS FOR PERSONS) OR ELSE THAT ARE AACR2-COMPATIBLE HEADINGS. ONE MODIFICATION: TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME (SUBFIELD "C") THAT OCCUR BETWEEN THE SURNAME AND THE FORENAME ALWAYS FOLLOW THE NAME SUBFIELD. THE SECOND INDICATOR IS ALWAYS SET TO VALUE "0" (MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT). THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: NEP

DESC: N/A

EXTERNAL TAG: 100

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF PERSONAL NAME: 0 - FORENAME ONLY   1 - SINGLE SURNAME   2 - MULTIPLE SURNAME
SECOND INDICATOR SPECIFIES WHETHER MAIN ENTRY IS ALSO THE SUBJECT: 0- MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT
SUBFIELDS: A - NAME (SURNAMES AND FORENAMES)
           B - NUMERATION (ROMAN NUMERAL OR ROMAN NUMERAL AND NAME USED WITH THE ENTRY ELEMENT OF A FORENAME HEADING)
           C - TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME
           D - DATES (OF BIRTH, DEATH, OR FLOURISHING)
           Q - QUALIFICATION OF NAME (FULLER FORM)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: MAIN ENTRY - CORPORATE NAME

SOURCE AGENCY: GPOS

USE: REQUIRED

DEF: CONTAINS A CORPORATE_NAME USED AS A MAIN ENTRY. A CORPORATE NAME IS DEFINED AS ANY ORGANIZATION OR GROUP OF PERSONS THAT IS IDENTIFIED BY A NAME AND THAT ACTS OR MAY ACT AS AN ENTITY. INCLUDED IN THIS DEFINITION ARE: ASSOCIATIONS, INSTITUTIONS, BUSINESS FIRMS, NON-PROFIT ENTERPRISES, GOVERNMENTS, SPECIFIC AGENCIES OF GOVERNMENTS, ETC. THIS DEFINITION ALSO INCLUDES NAMES OF SHIPS. NAMED CONFERENCES OR MEETINGS ARE RECORDED IN FIELD 111 UNLESS THEY ARE ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY.

CONTENT: CONTAINS A CORPORATE NAME USED AS A MAIN ENTRY. CORPORATE NAMES ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 23 (GEOGRAPHIC NAMES) AND/OR MOST OF CHAPTER 24 (HEADINGS FOR CORPORATE BODIES) OR RULE 25.13 OF AACR2 OR ELSE ARE AACR2-COMPATIBLE HEADINGS. IN GENERAL, QUALIFICATIONS TO CORPORATE NAMES ARE NOT SEPARATELY SUBFIELDED. EXCEPTIONS ARE THOSE ELEMENTS THAT ARE TO BE SUBDIVIDED BY SUBFIELDS "C," "D," "G," AND "N." THE SECOND INDICATOR IS ALWAYS SET TO VALUE "0" (MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT). THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: NNC

DESC: N/A

EXTERNAL TAG: 110

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CORPORATE NAME: 1 - PLACE OR PLACE AND NAME 2 - NAME (DIRECT ORDER)
    SECOND INDICATOR SPECIFIES WHETHER MAIN ENTRY IS ALSO THE SUBJECT: 0- MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT
    SUBFIELDS: A - NAME
                B - EACH SUBORDINATE UNIT IN HIERARCHY
                C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
                D - DATE (OF CONFERENCE OR MEETING)
                G - MISCELLANEOUS INFORMATION
                K - FORM SUBHEADING
                N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: MAIN ENTRY - CONFERENCE OR MEETING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A NAMED CONFERENCE OR MEETING USED AS A MAIN ENTRY. CONFERENCES OR MEETING HEADINGS ARE CONSIDERED A SUBTYPE OF CORPORATE NAMES TO AID IN THE CONTROL OF PUBLICATIONS ISSUED BY SUCH BODIES. NAMES OF CONFERENCES, MEETINGS, RELIGIOUS COUNCILS, EVENTS (EXHIBITIONS, EXPOSITIONS, EXPEDITIONS, ATHLETIC EVENTS, FAIRS, FESTIVALS, ETC.), LEGISLATIVE BODIES, CONSTITUTIONAL CONVENTIONS, AND CONVENTIONALIZED SUBHEADINGS FOR STATE OR LOCAL ELEMENTS OF AMERICAN POLITICAL PARTIES ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY ARE RECORDED IN FIELD 110.

CONTENT: CONTAINS A NAMED CONFERENCE OR MEETING (IN DIRECT ORDER) USED AS A MAIN ENTRY. CONFERENCE OR MEETING NAMES, ETC. TO BE INPUT IN THIS FIELD ARE RECORDED ACCORDING TO THE PROVISIONS OF AACR2 RULES 24.7, 24.6, ETC. THE FIRST INDICATOR IS ALWAYS SET TO VALUE "2" (NAME (DIRECT ORDER)); THE SECOND INDICATOR TO VALUE "0" (MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT). THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: BRM

DESC: N/A

EXTERNAL TAG: 111

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CONFERENCE OR MEETING NAME: 2 - NAME (DIRECT ORDER)
SECOND INDICATOR SPECIFIES WHETHER MAIN ENTRY IS ALSO THE SUBJECT: 0 - MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT
SUBFIELDS:
A - NAME OF MEETING OR PLACE ELEMENT
C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
D - DATE (OF CONFERENCE OR MEETING)
E - SUBORDINATE UNIT IN NAME
N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: MAIN ENTRY - UNIFORM TITLE HEADING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A UNIFORM TITLE HEADING USED AS A MAIN ENTRY. A UNIFORM TITLE IS A STANDARDIZED TITLE USED TO BRING TOGETHER
    IN A FILE ALL RECORDS FOR A WORK, THE VARIOUS EDITIONS OF WHICH MAY HAVE APPEARED UNDER VARYING TITLES AND WHICH MAY
    BE ENTERED UNDER A PERSONAL OR CORPORATE NAME.

CONTENT: CONTAINS A UNIFORM TITLE HEADING USED AS A MAIN ENTRY. UNIFORM TITLE HEADINGS INCLUDE NAMES OF RADIO OR TELEVISION
    PROGRAMS, MOTION PICTURES, VIDEORECORDINGS, ANONYMOUS WORKS, COMPOSITE MANUSCRIPTS OR MANUSCRIPT GROUPS. SOME IN ALL
    AND INTER-GOVERNMENTAL AGREEMENTS, AND TITLES OF SERIALS AND OTHER WORKS ENTERED UNDER TITLE. UNIFORM TITLE HEADINGS
    ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 25 (UNIFORM TITLES) OF AACR2. THE FIRST INDICATOR IS ALWAYS SET TO
    "0"; THE SECOND INDICATOR TO VALUE "0" (MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT). THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: REU

DESC: N/A

EXTERNAL TAG: 130

DESC: FIRST INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0
    SECOND INDICATOR SPECIFIES WHETHER MAIN ENTRY IS ALSO THE SUBJECT: 0 - MAIN ENTRY/SUBJECT RELATIONSHIP IRRELEVANT
    SUBFIELDS:
    A - UNIFORM TITLE HEADING
    D - DATE (OF TREATY SIGNING)
    F - DATE (OF A WORK)
    K - FORM SUBHEADING
    L - LANGUAGE
    N - NAME OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS, OR THEMATIC NUMBER OF DATE USED AS A NUMBER)
    P - NAME OF PART/SECTION (OF A WORK)   S - VERSION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: UNIFORM TITLE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A UNIFORM TITLE THAT IS PRINTED ON AN LC CARD. UNIFORM TITLES ARE USED TO GATHER TOGETHER VARIOUS EDITIONS OF
A WORK THAT MAY HAVE APPEARED UNDER VARYING TITLES. THIS FIELD IS PRESENT WHEN UNIFORM TITLES ARE USED FOR WORKS THAT
ARE ENTERED UNDER A NAME (PERSONAL OR CORPORATE).

CONTENT: CONTAINS A UNIFORM TITLE APPEARING IN A RECORD THAT IS ENTERED UNDER A PERSONAL OR CORPORATE NAME AND WHICH IS PRINTED
ON A CARD. IN ADDITION TO INDIVIDUAL WORKS BY AUTHORS, UNIFORM TITLES USED FOR WORKS ENTERED UNDER A NAME INCLUDE SUCH
CATEGORIES AS COLLECTIVE UNIFORM TITLES (E.G., "WORKS," "ESSAYS," "SELECTIONS," ETC.). UNIFORM TITLES FOR COLLECTIONS
OF LAWS AND TREATIES ("LAWS, ETC.," "TREATIES, ETC.,"), SINGLE LAWS, CERTAIN TREATIES, LITURGICAL WORKS, AND MUSIC.
UNIFORM TITLES ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 25 (UNIFORM TITLES) OF AACR2. THE FIRST INDICATOR
IS ALWAYS SET TO "1" (PRINTED ON LC CARDS); THE SECOND INDICATOR TO "0." THE FIELD IS NOT REPEATABLE.

INTERNAL TAG: UTI

DESC: N/A

EXTERNAL TAG: 240

DESC: FIRST INDICATOR SPECIFIES WHETHER UNIFORM TITLE ON PRINTED CARD: 1 - PRINTED ON CARDS
SECOND INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0
SUBFIELDS:
A - UNIFORM TITLE   D - DATE (OF TREATY SIGNING)
F - DATE (OF A WORK)   G - MISCELLANEOUS INFORMATION
K - FORM SUBHEADING   L - LANGUAGE   M - MEDIUM OF PERFORMANCE (FOR MUSIC)
N - NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
O - ARRANGED STATEMENT (FOR MUSIC)   P - NAME OF PART/SECTION (OF A WORK)
R - KEY (FOR MUSIC)   S - VERSION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: ROMANIZED TITLE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS A ROMANIZED TITLE. THIS FIELD SHOULD BE USED WHEN MACHINE CODES TO REPRESENT CHARACTERS IN NONROMAN ALPHABETS ARE USED. THE TITLE, IN THE VERNACULAR, SHOULD BE RECORDED IN FIELD 245 (TITLE STATEMENT).

CONTENT: CONTAINS THE ROMANIZED FORM OF THE TITLE STATEMENT (FIELD 245). SUBFIELD "H" (MEDIA QUALIFIER) CONTAINS A GENERAL MATERIAL DESIGNATION. THIS SUBFIELD CONTAINS A WORD(S) FOUND IN "LIST 2" ON P. 20 OF AACR2. THE FIELD AND SUBFIELDS ARE NOT REPEATABLE.

INTERNAL TAG: ROM

DESC: N/A

EXTERNAL TAG: 241

DESC: THE FIRST INDICATOR SPECIFIES IF A TITLE ADDED ENTRY IS TO BE PRINTED: 0 - NO TITLE ADDED ENTRY
        1 - TITLE ADDED ENTRY   THE SECOND INDICATOR SPECIFIES THE NUMBER OF
        NONFILING CHARACTERS: 0-9
        SUBFIELDS: A - ROMANIZED TITLE   H - MEDIA QUALIFIER

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: USE OF THE ROMANIZED TITLE BY GPO WILL BE RARE BECAUSE OF THE NATURE OF THE PUBLICATIONS.

ELEMENT: TITLE STATEMENT

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONTAINS THE TITLE PROPER. IT MAY ALSO INCLUDE OTHER TITLE INFORMATION, A GENERAL MATERIAL DESIGNATION, A STATEMENT(S)
OF RESPONSIBILITY, AND THE DESIGNATION OF A PART/SECTION AND THE NAME OF A PART/SECTION.

CONTENT: CONTAINS A WORD, PHRASE, CHARACTER, A GROUP OF CHARACTERS, NORMALLY APPEARING IN AN ITEM, NAMING THE ITEM OR ITS WORK
CONTAINED IN IT. AACR 1.1: TITLE AND STATEMENT OF RESPONSIBILITY AREA. SUBFIELD "A" (TITLE PROPER) CONTAINS THE TITLE
PROPER (AACR2 1.1B1-B9) AND MAY ALSO INCLUDE AN ALTERNATIVE TITLE. SUBFIELD "B" (REMAINDER OF TITLE) INCLUDES OTHER
TITLE INFORMATION, PARALLEL TITLE(S), ETC. (AACR2 1.1D-E6). THIS SUBFIELD IS PRECEDED BY THE FIRST COLON (:) OR THE
FIRST EQUALS SIGN (=). SUBFIELD "C" (STATEMENT OF RESPONSIBILITY) CONTAINS THE STATEMENT(S) OF RESPONSIBILITY
(AACR2 1.1F1-F15). THIS SUBFIELD IS PRECEDED BY THE FIRST SPACE/DIAGONAL SLASH (/). SUBFIELD "H" (MEDIA QUALIFIER)
CONTAINS A GENERAL MATERIAL DESIGNATION (AACR2 1.1C1-C4). THIS SUBFIELD CONTAINS A WORD(S) FOUND IN "LIST 2" ON P.20
OF AACR2, ENCLOSED WITHIN BRACKETS. SUBFIELDS "N" (NUMBER OF PART/SECTION) AND "P" (NAME OF PART/SECTION (OF A WORK))
ARE USED TO RECORD THE NUMBER AND/OR NAME OF A PART/SECTION OF A TITLE THAT IS ASSOCIATED WITH SUBFIELD "A." THE FIELD
IS PRESENT IN EVERY RECORD; IT IS NOT REPEATABLE.

INTERNAL TAG: TIL

DESC: N/A

EXTERNAL TAG: 245

DESC: THE FIRST INDICATOR SPECIFIES IF A TITLE ADDED ENTRY IS TO BE PRINTED:
        0 - NO TITLE ADDED ENTRY
        1 - TITLE ADDED ENTRY
       THE SECOND INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS 0-9: SUBFIELDS:
        A - SHORT TITLE/TITLE PROPER
        B - REMAINDER OF TITLE
        C - REMAINDER OF TITLE PAGE TRANSCRIPTION/STATEMENT OF RESPONSIBILITY
        H - MEDIA QUALIFIER
        N - NUMBER OF PART/SECTION
        P - NAME OF PART/SECTION (OF A WORK)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS

DATA SOURCE: DOCUMENT

NOTES:

ELEMENT: EDITION STATEMENT

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS AN EDITION STATEMENT. IT MAY ALSO CONTAIN A STATEMENT(S) OF RESPONSIBILITY RELATING TO THE EDITION,
     A SUBSEQUENT EDITION STATEMENT, AND A STATEMENT(S) OF RESPONSIBILITY RELATING TO A SUBSEQUENT EDITION STATEMENT.

CONTENT: CONTAINS AN EDITION STATEMENT AND MAY INCLUDE RELATED INFORMATION. AACR2 1.2: EDITION AREA. SUBFIELD "A"
     (EDITION STATEMENT) CONTAINS THE EDITION STATEMENT (AACR2 1.2B1-1.2B6) AND MAY ALSO INCLUDE A SUBSEQUENT EDITION
     STATEMENT (AACR2 1.2D). AACR2 1.2B1: TRANSCRIBE THE EDITION STATEMENT AS FOUND ON THE ITEM. USE STANDARD
     ABBREVIATIONS AND NUMERALS IN PLACE OF WORDS. SUBFIELD "B" (REMAINDER OF EDITION STATEMENT) CONTAINS THE FIRST
     STATEMENT OF RESPONSIBILITY RELATING TO ONE OR MORE EDITIONS (AACR2 1.2C1). IT IS PRECEDED BY THE FIRST SPACE/DIAGONAL
     SLASH (/). SUBFIELD "B" MAY ALSO CONTAIN MORE THAN ONE STATEMENT OF RESPONSIBILITY RELATING TO THE EDITION STATEMENT
     (AACR2 1.2C2), A SUBSEQUENT EDITION STATEMENT (AACR2 1.2D1), AND A STATEMENT(S) OF RESPONSIBILITY RELATING TO
     A SUBSEQUENT EDITION STATEMENT (AACR2 1.2E1). THE FIELDS AND SUBFIELDS ARE NOT REPEATABLE.

INTERNAL TAG: EDN

DESC: N/A

EXTERNAL TAG: 250

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
     SUBFIELDS:
     A - EDITION STATEMENT
     B - REMAINDER OF EDITION STATEMENT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES:

ELEMENT: MATHEMATICAL DATA AREA

SOURCE AGENCY: GPOS

USE: REQUIRES

DEFN: CONTAINS MATHEMATICAL DATA, INCLUDING A STATEMENT OF SCALE, STATEMENTOF PROJECTION AND/OR A STATEMENT OF COORDINATES
     (WHICH COVERS ZONE DATA) AND EQUINOX. THIS FIELD IS USED ONLY WITH CARTOGRAPHIC MATERIALS. THE INFORMATION, IN
     CODED FORM, IS RECORDED IN FIELD 034 (CODED MATHEMATICAL DATA).

CONTENT: CONTAINS MATHEMATICAL DATA. AACR2 3.3: MATHEMATICAL DATA AREA (3.3B:STATEMENT OF SCALE; 3.3C: STATEMENT OF PROJECTION;
     3.3D: STATEMENT OF COORDINATES AND EQUINOX). THERE CAN BE MORE THAN ONE MATHEMATICAL DATA AREA IN A RECORD, BUT THE
     SUBFIELDS ARE NOT REPEATABLE.

INTERNAL TAG: MDA

DESC: N/A

EXTERNAL TAG: 255

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
     SUBFIELDS: A - STATEMENT OF SCALE   B - STATEMENT OF PROJECTION
                 C - STATEMENT OF COORDINATES   D - STATEMENT OF ZONE
                 E - STATEMENT OF EQUINOX

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO WILL USE 255 FIELDS FOR ATLASES.

ELEMENT: IMPRINT STATEMENT (AACR2)

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONTAINS INFORMATION RELATING TO THE PUBLICATION, DISTRIBUTION, ISSUE, RELEASE, OR PRODUCTION OF A WORK.

CONTENT: CONTAINS INFORMATION ABOUT THE PLACE, NAME, AND DATE OF ALL TYPES OF PUBLISHING, DISTRIBUTING, RELEASING, AND ISSUING ACTIVITIES. THE GENERAL RULES FOR RECORDING SUCH INFORMATION ARE FOUND IN AACR2 1.4B1-B6. ALL DATA ELEMENTS ARE SEPARATELY SUBFIELDED EXCEPT: 1) QUALIFIERS AND SUBSCRIPTION ADDRESSES ADDED TO PLACE NAMES, 2) STATEMENTS OF THE FUNCTION OF THE PUBLISHER, DISTRIBUTOR, ETC., AND 3) ADJACENT DATES OF PUBLICATION, DISTRIBUTION, ETC. DATA (INCLUDING DATES PRECEDED BY THE WORD "DISTRIBUTED" OR THE TERM "I.E."). SUBFIELD "A" CONTAINS THE NAME OF THE PLACE OF PUBLICATION OR DISTRIBUTION. THIS SUBFIELD MAY ALSO CONTAIN THE FULL ADDRESS OF A PUBLISHER, DISTRIBUTOR, ETC. A SECOND OR SUBSEQUENTLY NAMED PLACE OF PUBLICATION, DISTRIBUTION, ETC. IS PRECEDED BY A SPACE/SEMICOLON (;). SUBFIELD "B" CONTAINS THE NAME OF THE PUBLISHER OR DISTRIBUTOR. THIS SUBFIELD IS PRECEDED BY A SPACE/COLON (:). SUBFIELD "C" CONTAINS THE DATE OF PUBLICATION. THIS SUBFIELD IS PRECEDED BY A COMMA (,). SUBFIELDS "A," "B" AND "C" ARE ALWAYS PRESENT IN THE FIELD. DETAILS OF MANUFACTURE (PLACE (SUBFIELD "E"), NAME (SUBFIELD "F"), AND DATE SUBFIELD "G")) SOMETIMES APPEAR IN THE FIELD; THE DATA IS ENCLOSED IN PARENTHESES AND ARE RECORDED ACCORDING TO AACR2 1.4G1-G4. SUBFIELD "F" (MANUFACTURER) IS PRECEDED BY A SPACE/COLON (:); SUBFIELD "G" (DATE OF MANUFACTURE) BY A COMMA (,). THE FIRST INDICATOR IS ALWAYS SET TO "0" (PUBLISHER, DISTRIBUTOR, ETC. IS PRESENT); THE SECOND INDICATOR TO "(BLANK)". THE FIELD IS PRESENT IN EVERY RECORD; IT IS NOT REPEATABLE.

INTERNAL TAG: IMP

DESC: N/R

EXTERNAL TAG: 260

DESC: FIRST INDICATOR SPECIFIES THE PRESENCE OF PUBLISHER IN IMPRINT: 0 - PUBLISHER, DISTRIBUTOR, ETC. IS PRESENT
      SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK.
      SUBFIELDS: A - PLACE OF PUBLICATION, DISTRIBUTION, ETC.
                  B - NAME OF PUBLISHER, DISTRIBUTOR, ETC.
                  C - DATE OF PUBLICATION, DISTRIBUTION, ETC.
                  E - PLACE OF MANUFACTURE
                  F - MANUFACTURER
                  G - DATE OF MANUFACTURE

CHARACTER SET: EXPANDED 9-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES:

ELEMENT: SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS.

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS THE NAME AND NAME AND FULL ADDRESS OF A MAJOR TRADE PUBLISHER.

CONTENT: CONTAINS FULL INFORMATION RELATING TO THE NAME AND ADDRESS OF A MAJOR TRADE PUBLISHER, INCLUDING INFORMATION THAT MAY
    ALSO BE FOUND ELSEWHERE IN THE RECORD, E.G., IN THE IMPRINT. AACR2 1.4C7: ADD THE FULL ADDRESS OF A PUBLISHER,
    DISTRIBUTOR, ETC., TO THE NAME OF THE PLACE (SUBFIELD "A" OF FIELD 260). ENCLOSE SUCH AN ADDITION IN PARENTHESES.
    DO NOT ADD THE FULL ADDRESS FOR MAJOR TRADE PUBLISHERS.

INTERNAL TAG: ADD

DESC: N/A

EXTERNAL TAG: 265

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELD: A - SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GENERALLY NOT USED FOR TECHNICAL REPORTS.

ELEMENT: PHYSICAL DESCRIPTION (AACR2)

SOURCE AGENCY: SPOS

USE: MANDATORY

DEFN: USED FOR RECORDING THE PHYSICAL DESCRIPTION AREA.

CONTENT: CONTAINS INFORMATION THAT APPEARS IN THE PHYSICAL DESCRIPTION AREA. SUBFIELD "A" (EXTENT OF ITEM) CONTAINS THE NUMBER OF VOLUMES AND/OR THE PAGINATION (AACR2 1.5B1-B5). TEMPORARY DATA ARE ENCLOSED WITHIN ANGLE BRACKETS (<>). SUBFIELD "B" (OTHER PHYSICAL DETAILS) CONTAINS ILLUSTRATIVE MATTER (AACR2 1.5C). THIS SUBFIELD IS PRECEDED BY A COLON (:). SUBFIELD "C" (DIMENSIONS) CONTAINS THE SIZE OF THE WORK, USUALLY IN CENTIMETERS (AACR2 1.5D). THIS SUBFIELD IS PRECEDED BY A SEMICOLON (;). SUBFIELD "E" (ACCOMPANYING MATERIAL) CONTAINS INFORMATION ABOUT THE ACCOMPANYING MATERIAL (AACR2 1.5E). THIS SUBFIELD IS PRECEDED BY A PLUS SIGN (+). PHYSICAL DESCRIPTION STATEMENTS ASSOCIATED WITH ACCOMPANYING MATERIAL ARE NOT SEPARATELY SUBFIELDED. THE FIELD AND THE SUBFIELDS ARE NOT REPEATABLE. THE FIELD IS PRESENT IN EVERY RECORD.

INTERNAL TAG: COL

DESC: N/A

EXTERNAL TAG: 300

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELDS: A - EXTENT OF ITEM   B - OTHER PHYSICAL DETAILS
               C - DIMENSIONS   E - ACCOMPANYING MATERIAL

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

PAGE NUMBER 0173

ELEMENT: ITEM COUNT/PAGE COUNT

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS THE NUMBER OF INFORMATION-CONTAINING PAGES. SUCH INFORMATION IS USED BY THE TECHNICAL REPORT COMMUNITY TO
    CALCULATE THE DOLLAR CHARGE ASSESSED FOR DISTRIBUTING THE DOCUMENT DESCRIBED BY THE RECORD.

CONTENT: CONTAINS THE NUMBER OF INFORMATION-CONTAINING PAGES. THE FIELD CONTAINS NUMERICS AND COMMAS WHERE NECESSARY. ONLY ONE
    NUMBER SHOULD BE PRESENT.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 302

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
    SUBFIELD: A - ITEM COUNT/PAGE COUNT

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC R CORDS.

DATA SOURCE: STAFF

NOTES: GPO NOT PRESENTLY USING PENDING DECISION.

ELEMENT: SERIES STATEMENT - TITLE (TRACED)

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFS: CONTAINS A SERIES STATEMENT ENTERED UNDER TITLE WHICH IS USED TO GENERATE A SERIES ADDED ENTRY IN THE SAME FORM REPRE-
SENTED BY THE DATA IN THE FIELD, EXCLUSIVE OF THE INTERNATIONAL STANDARD SERIAL NUMBER (ISSN), IF PRESENT.

CONTENT: CONTAINS A SERIES STATEMENT ENTERED UNDER TITLE WHICH IS USED TO GENERATE A SERIES ADDED ENTRY IN THE SAME FORM REPRE-
SENTED BY THE DATA IN THE FIELD, EXCLUSIVE OF THE ISSN. SERIES STATEMENTS DO NOT APPEAR IN PARENTHESES IN THE MACHINE-
READABLE RECORD. SUBFIELD "A" (TITLE) IDENTIFIES THE SERIES TITLE, A PARALLEL SERIES TITLE, AND IN SOME CASES A
SUBSERIES TITLE. EACH TYPE OF TITLE MAY CONTAIN OTHER TITLE INFORMATION AND/OR A STATEMENT OF RESPONSIBILITY. THESE
DATA ELEMENTS, HOWEVER, ARE NOT SEPARATELY SUBFIELDED. SUBFIELD "N" (NUMBER OF PART/SECTION) AND "P" (NAME OF
PART/SECTION (OF A WORK)) ARE USED TO RECORD THE NUMBER AND/OR NAME OF A PART/SECTION OF A TITLE THAT IS ASSOCIATED
WITH SUBFIELD "A." SUBFIELDS "A," "N," AND "P" ARE RECORDED ACCORDING TO AACR2 RULES 1.0B1-61, 1.0D1-D3. SUBFIELD "A"
CONTAINS THE ISSN OF THE SERIES. THE NUMBER IS PRECEDED BY THE LEGEND "ISSN" (WHICH IS NOT INPUT INTO MACHINE-READABLE
FORM). SUBFIELD "V" (VOLUME OR NUMBER) CONTAINS THE VOLUME OR NUMBER OF THE SERIES. THE SUBFIELD IS PRECEDED BY A
SPACE/SEMICOLON (;). AACR2 1.6G1. RECORD THE NUMBERING OF THE ITEM WITHIN THE SERIES IN THE TERMS GIVEN IN THE ITEM.
USE STANDARD ABBREVIATIONS AND SUBSTITUTE ARABIC NUMERALS FOR OTHER NUMERALS OR SPELLED OUT NUMBERS. IF THE PARTS OF A
MULTIPART ITEM ARE SEPARATELY NUMBERED WITHIN A SERIES, GIVE THE FIRST AND LAST NUMBERS IF THE NUMBERING IS CONTINUOUS;
OTHERWISE, GIVE ALL THE NUMBERS. NOTE: TEMPORARY DATA IN SUBFIELD "V" ARE ENCLOSED WITHIN ANGLE BRACKETS (< >).
IF THE ITEM HAS A DESIGNATION OTHER THAN A NUMBER, GIVE THE DESIGNATION AS FOUND. THE FIELD IS REPEATABLE.

INTERNAL TAG: SET

DESC: N/A

EXTERNAL TAG: 440

DESC: FIRST INDICATOR NOT DEFINED - CONTAINS A BLANK.
SECOND INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0-9
SUBFIELDS: A - TITLE
N - NUMBER OF PART/SECTION
P - NAME OF PART/SECTION (OF A WORK)
V - VOLUME OR NUMBER
X - INTERNATIONAL STANDARD SERIAL NUMBER (ISSN)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES: THE LEGEND "ISSN" MAY BE GENERATED ON OUTPUT WHEN SUBFIELD "X" IS PRESENT.

ELEMENT: SERIES UNTRACED OR TRACED DIFFERENTLY

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A SERIES STATEMENT FOR WHICH NO SERIES ADDED ENTRY IS MADE (UNTRACED) OR WHICH IS REPEATED IN THE 800-830
    FIELDS IN THE FORM USED FOR A SERIES ADDED ENTRY (TRACED DIFFERENTLY).

CONTENT: CONTAINS A SERIES STATEMENT WHICH IS 1) NOT TRACED AS A SERIES ADDED ENTRY (FIRST INDICATOR VALUE "0") OR WHICH IS
    2) IN A FORM DIFFERENT FROM THE SERIES AS IT IS TRACED AS THE SERIES ADDED ENTRY (FIRST INDICATOR VALUE "1"). SERIES
    STATEMENTS DO NOT APPEAR IN PARENTHESES IN THE MACHINE-READABLE RECORD. SUBFIELD "A" CONTAINS THE SERIES TITLE, A
    PARALLEL SERIES TITLE, AND IN SOME CASES A SUBSERIES TITLE. THE PARALLEL SERIES TITLE IS ALWAYS SEPARATELY
    SUBFIELDED AS "A"; THE SUBSERIES TITLE IS SEPARATELY SUBFIELDED AS "A" ONLY WHEN SUBFIELD "V" FOR THE MAIN SERIES IS
    PRESENT. EACH TYPE OF TITLE MAY CONTAIN OTHER TITLE INFORMATION AND/OR A STATEMENT OF RESPONSIBILITY; HOWEVER, THESE
    DATA ELEMENTS ARE NOT SEPARATELY SUBFIELDED. SUBFIELD "A" IS RECORDED ACCORDING TO THE PROVISIONS OF AACR2 RULES
    1.6B1-E1, 1.6H1-H5. SUBFIELD "Y" CONTAINS THE ISSN OF THE SERIES. THE NUMBER IS PRECEDED BY THE LEGEND "ISSN"
    (WHICH IS NOT INPUT INTO MACHINE-READABLE FORM). THE NUMBER CAN OCCUR ONLY ONCE IN THE FIELD. SUBFIELD "V" (VOLUME OR
    NUMBER) CONTAINS THE VOLUME OR NUMBER OF THE SERIES. THE SUBFIELD IS PRECEDED BY A SPACE/SEMICOLON (;).
    AACR2 1.6G1: RECORD THE NUMBERING OF THE ITEM WITHIN THE SERIES IN THE TERMS GIVEN IN THE ITEM. USE STANDARD
    ABBREVIATIONS AND SUBSTITUTE ARABIC NUMERALS FOR OTHER NUMERALS OR SPELLED OUT NUMBERS. IF THE PARTS OF A MULTIPART
    ITEM ARE SEPARATELY NUMBERED WITHIN A SERIES, GIVE THE FIRST AND LAST NUMBERS IF THE NUMBERING IS CONTINUOUS;
    OTHERWISE, GIVE ALL THE NUMBERS. NOTE: TEMPORARY DATA IN SUBFIELDS "A" AND "Y" ARE ENCLOSED WITHIN ANGLE BRACKETS
    (<>). IF THE ITEM HAS A DESIGNATION OTHER THAN A NUMBER, GIVE THE DESIGNATION AS FOUND. THE FIELD IS REPEATABLE.

INTERNAL TAG: SER

DESC: N/A

EXTERNAL TAG: 490

DESC: FIRST INDICATOR SPECIFIES WHETHER SERIES IS TRACED:
    0 - SERIES NOT TRACED
    1 - SERIES TRACED DIFFERENTLY
    SECOND INDICATOR NOT DEFINED - CONTAINS A BLANK.
    SUBFIELDS:
    A - TITLE UNTRACED OR TRACED DIFFERENTLY
    V - VOLUME OR NUMBER
    X - INTERNATIONAL STANDARD SERIAL NUMBER (ISSN)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES: THE LEGEND "ISSN" MAY BE GENERATED ON OUTPUT WHEN SUBFIELD "X" IS PRESENT.

ELEMENT: GENERAL NOTE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS GENERAL UNFORMATTED NOTES FOR INFORMATION THAT IS NOT SPECIFICALLY TAGGED ELSEWHERE IN THE FORMAT BUT WHICH
      WOULD PROVIDE ADDITIONAL DATA ABOUT THE WORK.

CONTENT: CONTAINS GENERAL UNFORMATED NOTES FOR INFORMATION THAT CANNOT BE SPECIFICALLY TAGGED ELSEWHERE IN THE FORMAT BUT WHICH
      WOULD PROVIDE ADDITIONAL DATA ABOUT THE WORK. IN GENERAL, THIS FIELD INCLUDES THE FOLLOWING TYPES OF NOTES: 1)
      NATURE, SCOPE, OR ARTISTIC FORM OF THE ITEM (AACR2 1.7B1); 2) LANGUAGE OF THE ITEM AND/OR TRANSLATION OR ADAPTATION
      (AACR2 1.7B2); 3) VARIATIONS IN TITLE (AACR2 1.7B4); 4) PARALLEL TITLES AND OTHER TITLE INFORMATION (AACR2 1.7B5); 5)
      STATEMENTS OF RESPONSIBILITY (AACR2 1.7B6); 6) EDITION AND HISTORY (AACR2 1.7B7); 7) PUBLICATION, DISTRIBUTION, ETC.
      (AACR2 1.7B9); 8) PHYSICAL DESCRIPTION (AACR2 1.7B10); 9) ACCOMPANYING MATERIALS AND SUPPLEMENTS (AACR2 1.7B11); 10)
      SERIES (AACR2 1.7B12); 11) STATEMENTS INDICATING THAT THE WORK REPRESENTS OR IS BASED ON THE AUTHOR'S THESIS
      (AACR2 1.7B13); 12) AUDIENCE (AACR2 1.7B14); 13) INFORMAL CONTENTS NOTES (AACR2 1.7B18); 14) NUMBERS BORNE BY THE ITEM
      (OTHER THAN NUMBERS SPECIFICALLY IDENTIFIED BY ANOTHER FIELD, E.G. 086, 088) (AACR2 1.7B19), ETC.

INTERNAL TAG: NOG

DESC: N/A

EXTERNAL TAG: 500

DESC: INDICATORS ARE NOT DEFINED - CONTAIN BLANKS.
      SUBFIELD: A - GENERAL NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: "WITH" NOTE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A NOTE INDICATING THE PRESENCE OF MORE THAN ONE WORK OR ISSUE BOUND IN A SINGLE VOLUME AT THE TIME OF
PUBLISHING AND/OR ISSUE.

CONTENT: CONTAINS A "WITH" NOTE. AACR2 2.7B21: IF THE DESCRIPTION IS OF A SEPARATELY TITLED PART OF AN ITEM LACKING A COLLECTIVE
TITLE, MAKE A NOTE BEGINNING WITH: LISTING THE OTHER SEPARATELY TITLED PARTS OF THE ITEM IN THE ORDER IN WHICH THEY
APPEAR THERE.

INTERNAL TAG: NOW

DESC: N/A

EXTERNAL TAG: 501

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELD: A - "WITH" NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES:

PAGE NUMBER 0178

ELEMENT: DISSERTATION NOTE

SOURCE AGENCY: GPOS

USP: IF AVAILABLE

DEFR: CONTAINS A NOTE GIVING THE DESIGNATION OF AN ACADEMIC DISSERTATION AND THE INSTITUTION TO WHICH IT WAS PRESENTED.

CONTENT: CONTAINS A DISSERTATION NOTE. AACR2 2.7B13: IF THE ITEM BEING DESCRIBED IS A DISSERTATION OR THESE PRESENTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR AN ACADEMIC DEGREE, GIVE THE DESIGNATION OF THE THESIS (USING THE ENGLISH WORD THESIS) FOLLOWED BY A BRIEF STATEMENT OF THE DEGREE FOR WHICH THE AUTHOR WAS A CANDIDATE (E.G., M.A. OR PH.D., OR, FOR THESES TO WHICH SUCH ABBREVIATION DO NOT APPLY, DOCTORAL OR MASTER'S), THE NAME OF THE INSTITUTION OR FACULTY TO WHICH THE THESIS WAS PRESENTED, AND THE YEAR IN WHICH THE DEGREE WAS GRANTED. IF THE PUBLICATION IS A REVISION OR ABRIDGMENT OF A THESIS, STATE THIS. IF THE THESIS IS A TEXT EDITED BY THE CANDIDATE, INCLUDE THE CANDIDATE'S NAME IN THE NOTE.

INTERNAL TAG: NOD

DESC: N/A

EXTERNAL TAG: 502

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
     SUBFIELD: A - DISSERTATION NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

PAGE NUMBER 0179

ELEMENT: BIBLIOGRAPHY/DISCOGRAPHY NOTE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A NOTE INDICATING THE PRESENCE OF A BIBLIOGRAPHY IN THE WORK.

CONTENT: CONTAINS A BIBLIOGRAPHY NOTE. AACR2 2.7B18: MAKE A NOTE OF THE CONTENTS OF AN ITEM, EITHER SELECTIVELY OR FULLY, IF IT
        IS CONSIDERED NECESSARY TO SHOW THE PRESENCE OF MATERIAL NOT IMPLIED BY THE REST OF THE DESCRIPTION, OR TO STRESS ITEMS
        OF PARTICULAR IMPORTANCE, OR TO LIST THE CONTENTS OF A COLLECTIVE.

INTERNAL TAG: NOB

DESC: N/A

EXTERNAL TAG: 504

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
        SUBFIELD: A - BIBLIOGRAPHY/DISCOGRAPHY NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: CONTENTS NOTE (FORMATTED)

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS FORMATTED CONTENTS NOTES. FORMATTED CONTENTS NOTES ARE BIBLIOGRAPHIC NOTES APPEARING AFTER THE WORDS "CONTENTS:" OR "PARTIAL CONTENTS:" ON THE PRINTED CARDS. THESE TERMS ARE NOT INCLUDED IN THE MACHINE-READABLE RECORD.

CONTENT: CONTAINS A FORMATTED CONTENTS NOTE. IN AACR2 RECORDS, THE DOUBLE HYPHENS SEPARATING THE ITEMS ARE PRECEDED BY ONE SPACE AND FOLLOWED BY ONE SPACE. AACR2 2.7B18: MAKE A NOTE OF THE CONTENTS OF AN ITEM, EITHER SELECTIVELY OR FULLY. IF IT IS CONSIDERED NECESSARY TO SHOW THE PRESENCE OF MATERIAL NOT IMPLIED BY THE REST OF THE DESCRIPTION, OR TO STRESS ITEMS OF PARTICULAR IMPORTANCE, OR TO LIST THE CONTENTS OF A COLLECTION. WHEN RECORDING TITLES FORMALLY, TAKE THEM FROM THE HEAD OF THE PART TO WHICH THEY REFER RATHER THAN FROM CONTENTS LISTS, ETC.

INTERNAL TAG: NOG

DESC: N/A

EXTERNAL TAG: 505

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CONTENTS NOTE: 0 - CONTENTS (COMPLETE)
      1 - CONTENTS (INCOMPLETE)   2 - PARTIAL CONTENTS
   SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK
   SUBFIELD: A - CONTENTS NOTE (FORMATTED)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF   DOCUMENT

NOTES: THE TERM "CONTENTS:" IS GENERATED ON OUTPUT WHENEVER THE FIRST INDICATOR IS SET TO "0" (ZERO) OR "1." THE TERM "PARTIAL CONTENTS:" IS GENERATED ON OUTPUT WHEN THE SECOND INDICATOR IS SET TO "2."

ELEMENT: LIMITED USE/RESTRICTIONS NOTE

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS INFORMATION INDICATING ANY LIMITATIONS OR RESTRICTIONS ON THE USE OF A WORK OR COLLECTION, INCLUDING LIMITED
       DISTRIBUTION OF A WORK.

CONTENT: CONTAINS A LIMITED USE NOTE, FOR INSTANCE A NOTE SUCH AS "CLASSIFIED," "FOR OFFICIAL USE ONLY," ETC.

INTERNAL TAG: NOU

DESC: N/A

EXTERNAL TAG: 506

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
       SUBFIELD: A - LIMITED USE/RESTRICTIONS NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES:

ELEMENT: TYPE OF REPORT AND PERIOD COVERED

SOURCE AGENCY: GPOS

USE: IF AVAILABLE

DEFN: CONTAINS INFORMATION AS TO THE TYPE OF REPORT AND THE PERIOD COVERED BY THE REPORT.

CONTENT: CONTAINS A TYPE OR REPORT AND PERIOD COVERED NOTE.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 513

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS
     SUBFIELDS: A - TYPE OF REPORT   B - PERIOD COVERED

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES:

ELEMENT: SUMMARY, ABSTRACT, SCOPE, ETC. NOTE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS UNFORMATTED NOTES THAT GIVE INFORMATION DESCRIBING THE SCOPE OR CONTENTS OF THE WORK. THIS COULD BE A
SUMMARY, ABSTRACT, ANNOTATION OR ONLY A PHRASE DESCRIBING THE WORK. SUCH INFORMATION APPEARS AFTER THE WORD "SUMMARY:"
ON PRINTED CARDS. THIS WORD IS NOT INCLUDED IN THE MACHINE-READABLE RECORD.

CONTENT: CONTAINS A SUMMARY OR ABSTRACT. AACR2.2.7B17: GIVE A BRIEF OBJECTIVE SUMMARY OF THE CONTENT OF AN ITEM UNLESS
ANOTHER PART OF THE DESCRIPTION GIVES ENOUGH INFORMATION.

INTERNAL TAG: NOA

DESC: N/A

EXTERNAL TAG: 520

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELDS: A - SUMMARY, ABSTRACT, ANNOTATION, SCOPE, ETC. NOTE   X - SOURCE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR NABC RECORDS.

DATA SOURCE: STAFF

NOTES: THE WORD "SUMMARY:" IS NOT CARRIED IN THE MACHINE RECORD BUT IS GENERATED ON OUTPUT.

ELEMENT: PHOTOREPRODUCTION NOTE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS INFORMATION THAT DESCRIBES AN ITEM THAT IS ITSELF A REPRODUCTION (MICROREPRODUCTION AND IN SOME CASES MACROREPRODUCTION).

CONTENT: CONTAINS A NOTE CONTAINING DATA RELEVANT TO THE REPRODUCTION IN HAND (AACR2 1.7B7). THE ORIGINAL ITEM IS DESCRIBED IN THE MAIN PORTION OF THE RECORD.

INTERNAL TAG: NOX

DESC: N/A

RETRIEVAL TAG: 533

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELDS: A - TYPE OF REPRODUCTION
            B - PLACE OF REPRODUCTION
            C - AGENCY RESPONSIBLE FOR REPRODUCTION
            D - DATE OF REPRODUCTION
            E - PHYSICAL DESCRIPTION OF REPRODUCTION
            F - SERIES STATEMENT FOR REPRODUCTION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: FUNDING INFORMATION NOTE

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS CONTRACT, GRANT AND PROJECT NUMBERS WHEN A PUBLICATION HAS BEEN FUNDED.

CONTENT: CONTAINS A FUNDING INFORMATION NOTE. A NUMBER CAN BE RECORDED IN THIS FIELD WITHOUT LINKING IT TO AN AGENCY.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 536

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
SUBFIELDS:
        A - TEXT OF NOTE
        B - CONTRACT NUMBER
        C - GRANT NUMBER
        D - PROJECT, TASK, WORK UNIT NUMBER (FUNDING NUMBER)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT

NOTES: INSTITUTIONS MAY WANT TO GENERATED PRINT CONSTANTS (E.G., "CONTRACT NO.:", "GRANT NO.:", AND "PROJECT NO.:")
        FROM SUBFIELDS "B," "C," AND "D" RESPECTIVELY.

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ELEMENT: LOCAL NOTE

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: RESERVED FOR LOCAL NOTES WHICH PERTAIN ONLY TO THE COPY OF THE WORK IN THE CATALOGING OR HOLDING LIBRARY. IT CAN BE
    USED, FOR EXAMPLE, TO ACCOMODATE DETAILS ON THE COPY BEING DESCRIBED AND LIBRARY HOLDINGS MENTIONED IN AACR.

CONTENT: CONTAINS A LOCAL NOTE. LOCAL BINDING PRACTICES OR LOCAL BINDING INFORMATION IS RECORDED HERE; ALSO, COPY BEING
    DESCRIBED AND LIBRARY'S HOLDINGS. AACR2 2.7B20: MAKE NOTES ON ANY PECULIARITIES OR IMPERFECTIONS OF THE COPY BEING
    DESCRIBED THAT ARE CONSIDERED TO BE IMPORTANT. IF THE LIBRARY DOES NOT HOLD A COMPLETE SET OF A MULTIPART ITEM, GIVE
    DETAILS OF THE LIBRARY'S HOLDINGS. MAKE A TEMPORARY NOTE IF THE LIBRARY HOPES TO COMPLETE THE SET.

INTERNAL TAG: NLO

DESC: N/A

EXTERNAL TAG: 590

DESC: INDICATORS NOT DEFINED - CONTAIN BLANKS.
     SUBFIELD: A - LOCAL NOTE

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: GPO USES TO RECORD THE SALES STOCK NO., DEPOSITORY ITEM NO., AND OTHER IN-HOUSE DATA FOR CARD-PRINTING PURPOSES.

ELEMENT: SUBJECT ADDED ENTRY - PERSONAL NAME

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SUBJECT HEADINGS WHICH ARE PERSONAL NAMES, INCLUDING PERSONAL NAMES AS PART OF AUTHOR-TITLE SUBJECT ADDED
ENTRIES. THIS CATEGORY INCLUDES: 1) NAMES OF ACTUAL PERSONS, CAPABLE OF AUTHORSHIP; 2) NAMES OF PERSONS USED WITH THE
PHRASE "IN FICTION, DRAMA, POETRY, ETC."; 3) NAMES OF FAMILIES; AND 5) TITLES OF WORKS ENTERED UNDER PERSONAL AUTHOR.

CONTENT: CONTAINS SUBJECT HEADINGS WHICH ARE PERSONAL NAMES, INCLUDING PERSONAL NAMES AS PART OF AUTHOR-TITLE SUBJECT ADDED
ENTRIES. SUCH HEADINGS HAVE EITHER BEEN ASSIGNED BY 1) GPO BASED ON THE LC AUTHORITY LIST OR LIBRARY OF CONGRESS
SUBJECT HEADINGS (SECOND INDICATOR "0"); 2) NLM BASED ON THE NLM AUTHORITY LIST OR MEDICAL SUBJECT HEADINGS (MESH)
(SECOND INDICATOR "2"); 3) NAL BASED ON THE NAL AUTHORITY LIST OR NATIONAL AGRICULTURAL LIBRARY SUBJECT HEADINGS (SECOND
INDICATOR "3"). HEADINGS WHICH ARE INPUT BASED ON AN AUTHORITY LIST MUST HAVE BEEN ESTABLISHED ACCORDING TO THE
PROVISIONS OF CHAPTER 22 (HEADINGS FOR PERSONS) OF AACR2 OR ELSE ARE AACR2-COMPATIBLE HEADINGS. ONE MODIFICATION:
TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME (SUBFIELD "C") THAT OCCUR BETWEEN THE SURNAME AND THE FORENAME ALWAYS
FOLLOW THE NAME SUBFIELD.

INTERNAL TAG: SUP

DESC: N/A

EXTERNAL TAG: 600

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF PERSONAL NAME: 0 - FORENAME ONLY 1 - SINGLE SURNAME 2 - MULTIPLE SURNAME
3 - NAME OF FAMILY
SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING: 0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING
2 - NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING 3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING
SUBFIELDS:
A - NAME (SURNAME AND FORENAME)
B - NUMERATION (ROMAN NUMERAL OR ROMAN NUMERAL AND NAME USED WITH THE ENTRY ELEMENT OF A FORENAME HEADING)
C - TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME   D - DATES (OF BIRTH, DEATH, OR FLOURISHING)
F - DATE (OF A WORK)   G - MISCELLANEOUS INFORMATION
K - FORM SUBHEADING   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
L - LANGUAGE   M - MEDIUM OF PERFORMANCE (FOR MUSIC)
N - NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
O - ARRANGED STATEMENT (FOR MUSIC)   P - NAME OF PART/SECTION (OF A WORK)
Q - QUALIFICATION OF NAME (FULLER NAME)   R - KEY (FOR MUSIC)
S - VERSION   T - TITLE (OF A WORK)
X - GENERAL SUBJECT SUBDIVISION   Y - CHRONOLOGICAL SUBJECT SUBDIVISION
Z - GEOGRAPHIC SUBJECT SUBDIVISION

ELEMENT: SUBJECT ADDED ENTRY - CORPORATE NAME.

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SUBJECT HEADINGS WHICH ARE CORPORATE NAMES, INCLUDING POLITICAL JURISDICTIONS SUBDIVIDED BY NAMES OF ORGANIZED BODIES OR FORM SUBHEADINGS, POLITICAL JURISDICTIONS WITH A TITLE, AND PROPER NAMES NOT CAPABLE OF AUTHORSHIP AS DEFINED IN AACR2 21.30B. THIS CATEGORY ALSO INCLUDES NAMES OF ENTITIES SUCH AS SHIPS, WHICH ARE SOMETIMES USED AS AUTHOR HEADINGS, AND TITLES OF WORKS ENTERED UNDER CORPORATE AUTHOR. NAMED CONFERENCES OR MEETINGS ARE RECORDED IN FIELD 611 UNLESS THEY ARE ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY.

CONTENT: CONTAINS SUBJECT HEADINGS WHICH ARE CORPORATE NAMES. SUCH HEADINGS HAVE EITHER BEEN ASSIGNED BY 1) GPO, BASED ON THE LC AUTHORITY LIST OR LIBRARY OF CONGRESS SUBJECT HEADINGS (SECOND INDICATOR "0"); 2) NLM BASED ON THE NLM AUTHORITY LIST OR MEDICAL SUBJECT HEADINGS (MESH) (SECOND INDICATOR "2"); 3) NAL BASED ON THE NAL AUTHORITY LIST OR NATIONAL AGRICULTURAL LIBRARY SUBJECT HEADINGS (SECOND INDICATOR "3"). HEADINGS WHICH ARE INPUT BASED ON AN AUTHORITY LIST MUST HAVE BEEN ESTABLISHED ACCORDING TO THE PROVISIONS OF MOST OF AACR2 CHAPTER 24 (HEADINGS FOR CORPORATE BODIES) OR ACCORDING TO AACR2 RULE 21.30B, 25.13, OR 25.16 OR ELSE ARE AACR2-COMPTIBLE HEADINGS. SUBFIELD "A," WHEN IT IS THE NAME OF A POLITICAL JURISDICTION, MUST HAVE BEEN ESTABLISHED ACCORDING TO THE PROVISIONS OF CHAPTER 23 (GEOGRAPHIC NAMES) OF AACR2.

INTERNAL TAG: SUC

DESC: N/A

EXTERNAL TAG: 610

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CORPORATE NAME: 1 - PLACE OR PLACE AND NAME   2 - NAME (DIRECT ORDER)
SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING: 0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING
2 - NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING   3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING
SUBFIELDS:

A - NAME	B - EACH SUBORDINATE UNIT IN HIERARCHY
C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)	
D - DATE (OF CONFERENCE OR MEETING/OF TREATY SIGNING)	
G - MISCELLANEOUS INFORMATION	K - FORM SUBHEADING
L - LANGUAGE	M - MEDIUM OF PERFORMANCE (FOR MUSIC)

XTAG DESC CONTINUED IN NOTES FIELD

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF XTAG DESC***
N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)

O - ARRANGED STATEMENT (FOR MUSIC)	P - NAME OF PART/SECTION (OF A WORK)
R - KEY (FOR MUSIC)	S - VERSION
T - TITLE (OF A WORK)	X - GENERAL SUBJECT SUBDIVISION
Y - CHRONOLOGICAL SUBJECT SUBDIVISION	Z - GEOGRAPHIC SUBJECT SUBDIVISION

PAGE NUMBER 0189

ELEMENT: SUBJECT ADDED ENTRY - CONFERENCE OR MEETING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SUBJECT HEADINGS WHICH CONSIST OF NAMED CONFERENCES OR MEETINGS. NAMES OF CONFERENCES, MEETINGS, RELIGIOUS
     COUNCILS, EVENTS (EXHIBITIONS, EXPOSITIONS, EXPEDITIONS, ATHLETIC EVENTS, FAIRS, FESTIVALS, ETC.), LEGISLATIVE BODIES,
     CONSTITUTIONAL CONVENTIONS, AND CONVENTIONALIZED SUBHEADINGS FOR STATE OR LOCAL ELEMENTS OF AMERICAN POLITICAL PARTIES.
     ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY ARE RECORDED IN FIELD 610.

CONTENT: CONTAINS SUBJECT HEADINGS WHICH CONSIST OF NAMED CONFERENCES OR MEETINGS (IN DIRECT ORDER). SUCH HEADINGS HAVE EITHER
     BEEN ASSIGNED BY 1) GPO BASED ON THE LC AUTHORITY LIST OR LIBRARY OF CONGRESS SUBJECT HEADINGS (SECOND INDICATOR "0");
     2) NLM BASED ON THE NLM AUTHORITY LIST OR MEDICAL SUBJECT HEADINGS (MESH) (SECOND INDICATOR "2"); OR 3) NAL BASED ON
     THE NAL AUTHORITY LIST OR NATIONAL AGRICULTURAL LIBRARY SUBJECT HEADINGS (SECOND INDICATOR "3"). HEADINGS WHICH ARE
     INPUT BASED ON AN AUTHORITY LIST MUST HAVE BEEN ESTABLISHED ACCORDING TO THE PROVISIONS OF AACR2 24.7, 24.8, ETC. THE
     FIRST INDICATOR IS ALWAYS SET TO VALUE "2" (NAME (DIRECT ORDER)).

INTERNAL TAG: SUH

DESC: N/A

EXTERNAL TAG: 611

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CONFERENCE OR MEETING NAME: 0 - NAME (DIRECT ORDER)
     SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING: 0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING   2 -
     NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING   3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING
     SUBFIELDS:
     A - NAME OF MEETING OR PLACE ELEMENT
     C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
     D - DATE OF CONFERENCE OR MEETING
     E - SUBORDINATE UNIT IN NAME
     F - DATE OF A WORK
     K - FORM SUBHEADING   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
     L - LANGUAGE
     N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS, OR THEMATIC NUMBER OR DATE USED AS A
         NUMBER)
     P - NAME OF PART/SECTION (OF A WORK)
     S - VERSION
     T - TITLE (OF A WORK)
     X - GENERAL SUBJECT SUBDIVISION
     Y - CHRONOLOGICAL SUBJECT SUBDIVISION
     Z - GEOGRAPHIC SUBJECT SUBDIVISION

ELEMENT: SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SUBJECT HEADINGS WHICH ARE UNIFORM TITLE HEADINGS. A UNIFORM TITLE IS A STANDARDIZED TITLE USED TO BRING
     TOGETHER IN A FILE ALL RECORDS FOR A WORK, THE VARIOUS EDITIONS OF WHICH MAY HAVE APPEARED UNDER VARYING TITLES AND
     WHICH MAY NOT BE ENTERED UNDER A PERSONAL OR CORPORATE NAME.

CONTENT: CONTAINS SUBJECT HEADINGS WHICH ARE UNIFORM TITLE HEADINGS. THIS CATEGORY INCLUDES: 1) NAMES OF RADIO AND TV PROGRAMS,
     2) TITLES OF MOTION PICTURES AND VIDEORECORDINGS; 3) NAMES OF ANONYMOUS WORKS; 4) SOME TREATIES AND INTERGOVERNMENTAL
     AGREEMENTS; 5) COMPOSITE MANUSCRIPTS OR MANUSCRIPT GROUPS, AND 6) ALLWORKS ENTERED UNDER TITLE SUCH AS ATLANTIC CHARTER
     AND FOREIGN AFFAIRS. HEADINGS IN THIS FIELD HAVE EITHER BEEN ASSIGNED BY 1) GPO BASED ON THE LC AUTHORITY LIST OR
     LIBRARY OF CONGRESS SUBJECT HEADINGS (SECOND INDICATOR "0"); 2) NLM BASED ON THE NLM AUTHORITY LIST OR MEDICAL SUBJECT
     HEADINGS (MESH) (SECOND INDICATOR "2"); OR 3) NAL BASED ON THE NAL AUTHORITY LIST OR NATIONAL AGRICULTURAL LIBRARY
     SUBJECT HEADINGS (SECOND INDICATOR "3"). SUCH HEADINGS MUST HAVE BEEN ESTABLISHED ACCORDING TO THE PROVISIONS OF
     CHAPTER 25 (UNIFORM TITLES) OF AACR2. THE FIRST INDICATOR IS ALWAYS SET TO "0".

INTERNAL TAG: SU8

DESC: N/A

EXTERNAL TAG: 630

DESC: FIRST INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0
     SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING:
         0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING
         2 - NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING
         3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING.
     SUBFIELDS:
         A - UNIFORM TITLE HEADING   D - DATE (OF TREATY SIGNING)
         F - DATE (OF A WORK)   G - MISCELLANEOUS INFORMATION
         K - FORM SUBHEADING   L - LANGUAGE
         M - MEDIUM OF PERFORMANCE (FOR MUSIC)   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
     N- NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
     O - ARRANGED STATEMENT (FOR MUSIC)   P - NAME OF PART/SECTION (OF A WORK)
     R - KEY (FOR MUSIC)   S - VERSION
     X - GENERAL SUBJECT SUBDIVISION   Y - CHRONOLOGICAL SUBJECT SUBDIVISON
     Z - GEOGRAPHIC SUBJECT SUBDIVISION

ELEMENT: SUBJECT ADDED ENTRY - TOPICAL HEADING

SOURCE AGENCY: GPOS

USE: MANDATORY

DEFN: CONTAINS TOPICAL SUBJECT HEADINGS.

CONTENT: CONTAINS TOPICAL SUBJECT HEADINGS. THIS CATEGORY INCLUDES: 1) GENERAL TERMS OF THE TYPE INCLUDED IN THE LC LIST OF SUBJECT HEADING, E.G., DOGS, CHEMISTRY, ETC.; 2) SYSTEMATIC NAMES OF FAMILIES, GENERA, AND SPECIES IN BOTANY AND ZOOLOGY, AND CHEMICAL COMPOUNDS; 3) NAMES OF EVENTS AND HOLIDAYS, E.G., BATTLE OF TANNENBERG; PHOENIX PARK ASSASSINATION, 1882; AND 4) A WIDE VARIETY OF NAMES OR TERMS APPLIED TO INDIVIDUAL OBJECTS OR CLASSES OF OBJECTS, E.G., NEO (ARTIFICIAL LANGUAGE), ROLLS-ROYCE AUTOMOBILE, ETC. SUCH HEADINGS HAVE EITHER BEEN ASSIGNED BY 1) GPO BASED ON LIBRARY OF CONGRESS SUBJECT HEADINGS (SECOND INDICATOR "0"); 2) NLM BASED ON MEDICAL SUBJECT HEADINGS (MESH) (SECONDARY INDICATOR "2"); OR NAL BASED ON NATIONAL AGRICULTURAL LIBRARY SUBJECT HEADINGS (SECOND INDICATOR "3").

INTERNAL TAG: SUT

DESC: N/A

EXTERNAL TAG: 650

DESC: FIRST INDICATOR SPECIFIES THE LEVEL OF THE SUBJECT TERM: (BLANK) - NO INFORMATION RECORDED
SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING:
    0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING
    2 - NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING
    3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING
SUBFIELDS: A - TOPICAL HEADING OR PLACE ELEMENT
           X - GENERAL SUBJECT SUBDIVISION
           Y - CHRONOLOGICAL SUBJECT SUBDIVISION
           Z - GEOGRAPHIC SUBJECT SUBDIVISION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: SUBJECT ADDED ENTRY - GEOGRAPHIC NAME

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SUBJECT HEADINGS WHICH ARE GEOGRAPHIC NAMES. THIS CATEGORY INCLUDES: 1) NATURAL FEATURES (BAYS, CAPES, RIVERS, MOUNTAINS, DESERTS, ETC.); 2) GEOGRAPHIC REGIONS (NAMES OF CONTINENTS, LAND MASSES, ETC.); 3) ARCHAEOLOGICAL SITES; 4) PARKS, ETC.; AND 5) POLITICAL JURISDICTIONS EITHER ALONE OR WITH SUBJECT SUBDIVISION. POLITICAL JURISDICTIONS SUBDIVIDED BY NAMES OF ORGANIZED BODIES, FORM SUBHEADINGS, AND/OR TITLES ARE CONSIDERED CORPORATED NAMES AND ARE GIVEN IN FIELD 610.

CONTENT: CONTAINS SUBJECT HEADINGS WHICH ARE GEOGRAPHIC NAMES. SUCH HEADINGS HAVE EITHER BEEN ASSIGNED BY 1) GPO BASED ON THE LC AUTHORITY LIST OR LIBRARY OF CONGRESS SUBJECT HEADINGS (SECOND INDICATOR "0"); 2) NLM BASED ON THE NLM AUTHORITY LIST OR MEDICAL SUBJECT HEADINGS (MESH) (SECOND INDICATOR "2"); OR 3) NAL BASED ON THE NAL AUTHORITY LIST OR NATIONAL AGRICULTURAL LIBRARY SUBJECT HEADINGS (SECOND INDICATOR "3"). HEADINGS WHICH ARE INPUT BASED ON AN AUTHORITY LIST MUST HAVE BEEN ESTABLISHED ACCORDING TO THE PROVISIONS OF CHAPTER 23 (GEOGRAPHIC NAMES) OF AACR2.

INTERNAL TAG: SUG

DESC: N/A

EXTERNAL TAG: 651

DESC: FIRST INDICATOR IS NOT DEFINED - CONTAINS A BLANK.
    SECOND INDICATOR SPECIFIES THE SOURCE OF THE SUBJECT HEADING:
        0 - LIBRARY OF CONGRESS (LC) SUBJECT HEADING
        2 - NATIONAL LIBRARY OF MEDICINE (NLM) SUBJECT HEADING
        3 - NATIONAL AGRICULTURAL LIBRARY (NAL) SUBJECT HEADING.
    SUBFIELDS:
        A - GEOGRAPHIC NAME OR PLACE ELEMENT
        X - GENERAL SUBJECT SUBDIVISION
        Y - CHRONOLOGICAL SUBJECT SUBDIVISION
        Z - GEOGRAPHIC SUBJECT SUBDIVISION

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES:

ELEMENT: SUBJECT ADDED ENTRY - UNCONTROLLED HEADING

SOURCE AGENCY: GPOS

USE: OPTIONAL

DEFN: CONTAINS SUBJECT TERMS THAT ARE NOT DERIVED FROM CONTROLLED SUBJECT HEADING LISTS OR SYSTEMS.

CONTENT: CONTAINS SUBJECT TERMS THAT ARE NOT DERIVED FROM CONTROLLED SUBJECT HEADING LISTS OR SYSTEMS. THE FIRST INDICATOR SPECIFIES THE LEVEL OF THE SUBJECT TERM. THE SUBJECT TERM PRESENT IN THE FIELD MAY BE WEIGHED AS BEING A PRIMARY OR SECONDARY DESCRIPTOR OF THE REPORT. A TERM IS CONSIDERED PRIMARY (VALUE "1") IF IT COVERS THE MAIN FOCUS OR SUBJECT OF THE DOCUMENT. A TERM REPRESENTING A LESS IMPORTANT ASPECT WITH THE DOCUMENT IS CONSIDERED SECONDARY (VALUE "2"). VALUE "0" IS USED WHEN NO DECISION IS MADE AS TO WHETHER THE TERM IS PRIMARY OR SECONDARY.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: 653

DESC: FIRST INDICATOR SPECIFIES THE LEVEL OF THE SUBJECT TERM: 0 - NO LEVEL SPECIFIED
      SECOND INDICATOR IS NOT DEFINED - CONTAINS A BLANK
      SUBFIELD: A - SUBJECT TERM

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS,

DATA SOURCE: STAFF

NOTES:

ELEMENT: ADDED ENTRY - PERSONAL NAME

SOURCE AGENCY: GPGS

USE: REQUIRED

DEFN: CONTAINS PERSONAL NAMES ASSOCIATED WITH THE WORK WHICH ARE USED AS ADDED ENTRIES. THIS CATEGORY INCLUDES: 1) NAMES OF ACTUAL PERSONS, CAPABLE OF AUTHORSHIP BUT NOT USED AS A MAIN ENTRY, E.G., EDITORS, TRANSLATORS, ETC. AND 2) TITLES OF WORKS ENTERED UNDER PERSONAL AUTHOR THAT ARE ADDED ENTRIES.

CONTENT: CONTAINS PERSONAL NAMES ASSOCIATED WITH THE WORK WHICH ARE USED AS ADDED ENTRIES. PERSONAL NAMES ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 22 (HEADINGS FOR PERSONS) OF AACR2 OR ELSE ARE AACR2-COMPATIBLE HEADINGS. ONE MODIFICATION: TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME (SUBFIELD "C") THAT OCCUR BETWEEN THE SURNAME AND THE FORENAME ALWAYS FOLLOW THE NAME SUBFIELD.

INTERNAL TAG: AEP

DESC: N/A

EXTERNAL TAG: 700

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF PERSONAL NAME: 0 - FORENAME ONLY   1 - SINGLE SURNAME   2 - MULTIPLE SURNAME
     3 - NAME OF FAMILY. SECOND INDICATOR SPECIFIES THE TYPE OF ADDED ENTRY: 0 - ALTERNATIVE ENTRY   1 - SECONDARY ENTRY
     2 - ANALYTICAL ENTRY. SUBFIELDS:
     A - NAME (SURNAMES AND FORENAMES)
     B - NUMERATION (ROMAN NUMERAL OR ROMAN NUMERAL AND NAME USED WITH THE ENTRY ELEMENT OF A FORENAME HEADING)
     C - TITLES AND OTHER WORDS ASSOCIATED WITH THE NAME
     D - DATES (OF BIRTH, DEATH, OR FLOURISHING)
     F - DATE (OF A WORK)
     G - MISCELLANEOUS INFORMATION
     K - FORM SUBHEADING   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
     L - LANGUAGE
     M - MEDIUM OF PERFORMANCE (FOR MUSIC)
     N - NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
     O - ARRANGED STATEMENT (FOR MUSIC)
     P - NAME OF PART/SECTION (OF A WORK)
     Q - QUALIFICATION OF NAME (FULLER FORM)
     R - KEY (FOR MUSIC)
     S - VERSION
     T - TITLE (OF A WORK)

ELEMENT: ADDED ENTRY - CORPORATE NAME

SOURCE AGENCY: GPO

USE: REQUIRED

DEFN: CONTAINS NAMES OF CORPORATE BODIES ASSOCIATED WITH THE WORK WHICH ARE USED AS ADDED ENTRIES, INCLUDING PROPER NAMES NOT CAPABLE OF AUTHORSHIP AS DEFINED IN AACR2 RULE 21.30H. NAMED CONFERENCES OR MEETINGS ARE RECORDED IN FIELD 711 UNLESS THEY ARE ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY.

CONTENT: SCONTAINS NAMES OF CORPORATE BODIES ASSOCIATED WITH THE WORK WHICH ARE USED AS ADDED ENTRIES. CORPORATE NAMES ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 23 (GEOGRAPHIC NAMES) AND/OR MOST OF CHAPTER 24 (HEADINGS FOR CORPORATE BODIES) OF AACR2 OR ACCORDING TO AACR2 RULES 21.30H, 25.13, OR 25.14 OR ELSE ARE AACR2-COMPATIBLE HEADINGS.

INTERNAL TAG: ABC

DESC: N/A

EXTERNAL TAG: 710

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CORPORATE NAME: 1 - PLACE OR PLACE AND NAME 2 - NAME (DIRECT ORDER)
SECOND INDICATOR SPECIFIES THE TYPE OF ADDED ENTRY: 0 - ALTERNATIVE ENTRY 1 - SECONDARY ENTRY 2 - ANALYTICAL ENTRY
SUBFIELDS:
A - NAME
B - EACH SUBORDINATE UNIT IN HIERARCHY
C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
D - DATE (OF A CONFERENCE OR MEETING/OF TREATY SIGNING)
F - DATE (OF A WORK)
G - MISCELLANEOUS INFORMATION
K - FORM SUBHEADING   ***EITAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
L - LANGUAGE
M - MEDIUM OF PERFORMANCE (FOR MUSIC)
N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
O - ARRANGED STATEMENT (FOR MUSIC)
P - NAME OF PART/SECTION (OF A WORK)
R - KEY (FOR MUSIC)
S - VERSION
T - TITLE (OF A WORK)

ELEMENT: ADDED ENTRY - CONFERENCE OR MEETING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS NAMED CONFERENCES OR MEETINGS USED AS ADDED ENTRIES. NAMES OF CONFERENCES, MEETINGS, RELIGIOUS COUNCILS, EVENTS (EXHIBITIONS, EXPOSITIONS, ATHLETIC EVENTS, FAIRS, FESTIVALS, ETC.), LEGISLATIVE BODIES, CONSTITUTIONAL CONVENTIONS, AND CONVENTIONALISED SUBHEADINGS FOR STATE OR LOCAL ELEMENTS OF AMERICAN POLITICAL PARTIES ENTERED SUBORDINATELY UNDER A POLITICAL JURISDICTION OR A CORPORATE BODY ARE RECORDED IN FIELD 710.

CONTENT: CONTAINS NAMED CONFERENCES OR MEETINGS (IN DIRECT ORDER) USED AS ADDED ENTRIES. CONFERENCE OR MEETING NAMES, ETC. TO BE INPUT IN THIS FIELD ARE RECORDED ACCORDING TO THE PROVISIONS OF AACR2RULES 24.7, 24.8, ETC. THE FIRST INDICATOR IS ALWAYS SET TO VALUE "2" (NAME (DIRECT ORDER)).

INTERNAL TAG: ANU

DESC: N/A

EXTERNAL TAG: 711

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CONFERENCE OR MEETING NAME: 2 - NAME (DIRECT ORDER)
      SECOND INDICATOR SPECIFIES THE TYPE OF ADDED ENTRY:
          0 - ALTERNATIVE ENTRY
          1 - SECONDARY ENTRY
          2 - ANALYTICAL ENTRY
      SUBFIELDS:
      A - NAME OF MEETING OR PLACE ELEMENT
      C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
      D - DATE (OF CONFERENCE OR MEETING)
      E - SUBORDINATE UNIT IN NAME   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
          F - DATE (OF A WORK)
          K - FORM SUBHEADING
          L - LANGUAGE
          N - NUMBER OF PART/SECTION (OF A WORK)
          P - NAME OF PART/SECTION (OF A WORK)
          S - VERSION
          T - TITLE (OF A WORK)

ELEMENT: ADDED ENTRY - UNIFORM TITLE HEADING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS UNIFORM TITLE HEADINGS USED AS ADDED ENTRIES. A UNIFORM TITLE IS A STANDARDIZED TITLE USED TO BRING TOGETHER IN A FILE ALL RECORDS FOR A WORK, THE VARIOUS EDITIONS OF WHICH MAY HAVE APPEARED UNDER VARYING TITLES AND WHICH MAY NOT BE ENTERED UNDER A PERSONAL OR CORPORATE NAME.

CONTENT: CONTAINS UNIFORM TITLE HEADINGS USED AS ADDED ENTRIES. UNIFORM TITLES USED AS ADDED ENTRIES INCLUDE NAMES OF ANONYMOUS WORKS, MULTILATERAL TREATIES ENTERED UNDER THE NAME OF THE TREATY AND PEACE TREATIES, INTERGOVERNMENTAL AGREEMENTS, ETC., COMPOSITE MANUSCRIPTS OR MANUSCRIPT COLLECTIONS, SACRED SCRIPTURES, NAMES OF RADIO AND TV PROGRAMS, TITLES OF MOTION PICTURES, AND TITLES OF WORKS ENTERED UNDER TITLE SUCH AS FOREIGN AFFAIRS. UNIFORM TITLE HEADINGS ARE RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 25 (UNIFORM TITLES) OF AACR2. THE FIRST INDICATOR IS ALWAYS SET TO "0."

INTERNAL TAG: AUT

DESC: N/A

EXTERNAL TAG: 730

DESC: FIRST INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0
    SECOND INDICATOR SPECIFIES THE TYPE OF ADDED ENTRY:
      1 - SECONDARY ENTRY
      2 - ANALYTICAL ENTRY
    SUBFIELDS:
    A - UNIFORM TITLE HEADING
    D - DATE (OF TREATY SIGNING)
    F - DATE (OF A WORK)
    G - MISCELLANEOUS INFORMATION
    K - FORM SUBHEADING   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***CONTINUATION OF EXTAG DESC***
    L - LANGUAGE
    N - MEDIUM OF PERFORMANCE (FOR MUSIC)
    N - NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
    O - ARRANGED STATEMENT (FOR MUSIC)
    P - NAME OF PART/SECTION (OF A WORK)
    R - KEY (FOR MUSIC)
    S - VERSION

ELEMENT: ADDED ENTRY - TITLE TRACED DIFFERENTLY

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS TITLE ADDED ENTRIES THAT ARE EITHER IN A FORM DIFFERENT FROM THAT OF THE SHORT TITLE PORTION OF THE TITLE
STATEMENT OR THAT ARE IN ADDITION TO THE SHORT TITLE.

CONTENT: CONTAINS TITLE ADDED ENTRIES THAT ARE EITHER IN A FORM DIFFERENT FROM THAT OF THE SHORT TITLE PORTION OF THE TITLE
STATEMENT OR THAT ARE IN ADDITION TO THE SHORT TITLE. THESE TITLE ADDED ENTRIES ARE RECORDED ACCORDING TO THE
PROVISIONS OF AACR2 RULE 21.290 OR 21.30J. THE FIRST INDICATOR IS ALWAYS SET TO "0" (ZERO); THE SECOND INDICATOR
TO VALUE "2" (SECONDARY ENTRY).

INTERNAL TAG: AED

DESC: N/A

EXTERNAL TAG: 740

DESC: FIRST INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0
SECOND INDICATOR SPECIFIES THE TYPE OF ADDED ENTRY: 2 - SECONDARY ENTRY
SUBFIELDS: A - TITLE TRACED DIFFERENTLY
             N - NUMBER OF PART/SECTION
             P - NAME OF PART/SECTION (OF A WORK)

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: DOCUMENT   STAFF

NOTES: THE WORD "TITLE:" IS NOT CARRIED IN THE MACHINE RECORD BUT IT IS GENERATED ON OUTPUT.

PAGE NUMBER 0199

ELEMENT: SERIES ADDED ENTRY - CORPORATE NAME/TITLE

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS SERIES ADDED ENTRIES ENTERED UNDER CORPORATE NAME.

CONTENT: CONTAINS SERIES ADDED ENTRIES ENTERED UNDER CORPORATE NAME. THE SERIES IS TRACED DIFFERENTLY FROM THE FORM GIVEN IN
THE SERIES UNTRACED OR TRACED DIFFERENTLY (490) FIELD. THE SERIES IS MADE BASED ON AACR2 RULE 21.30L. THE CORPORATE
NAME ITSELF IS RECORDED ACCORDING TO THE PROVISIONS OF CHAPTER 23 (GEOGRAPHIC NAMES) AND/OR MOST OF CHAPTER 24
(HEADINGS FOR CORPORATE BODIES) OF AACR2 OR ELSE IS AN AACR2-COMPATIBLE HEADING. IN GENERAL, QUALIFICATIONS TO
CORPORATE NAMES ARE NOT SEPARATELY SUBFIELDED. EXCEPTIONS ARE THOSE ELEMENTS THAT ARE TO BE SUBDIVIDED BY SUBFIELDS
"C," "D," "G," AND "N." SUBFIELD "T" (TITLE (OF A WORK)) IS ALWAYS PRESENT IN THE FIELD.

INTERNAL TAG: SAC

DESC: N/A

EXTERNAL TAG: 810

DESC: FIRST INDICATOR SPECIFIES THE TYPE OF CORPORATE NAME: 1 - PLACE OR PLACE AND NAME
                                                             2 - NAME (DIRECT ORDER)
    SECOND INDICATOR IS UNDEFINED - CONTAINS A BLANK.
    SUBFIELDS:
    A - NAME
    B - EACH SUBORDINATE UNIT IN HIERARCHY
    C - PLACE (INCLUDING A NAME OF AN INSTITUTION WHERE CONFERENCE HELD)
    D - DATE (OF CONFERENCE OR MEETING/OF TREATY SIGNING)
    F - DATE (OF A WORK)
    G - MISCELLANEOUS INFORMATION   **EXTAG DESC CONTINUED IN NOTES FIELD**

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: **CONTINUATION OF EXTAG DESC**   K - FORM SUBHEADING
    L - LANGUAGE
    M - MEDIUM OF PERFORMANCE (FOR MUSIC)
    N - NUMBER OF PART/SECTION/CONFERENCE (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS, OR THEMATIC NUMBER OR DATE USED AS A
        NUMBER)
    O - ARRANGED STATEMENT (FOR MUSIC)
    P - NAME OF PART/SECTION (OF A WORK)
    R - KEY (FOR MUSIC)
    S - VERSION
    T - TITLE (OF A WORK)   V - VOLUME OR NUMBER

ELEMENT: SERIES ADDED ENTRY - UNIFORM TITLE HEADING

SOURCE AGENCY: GPOS

USE: REQUIRED

DEFN: CONTAINS A SERIES ADDED ENTRY THAT IS A UNIFORM TITLE HEADING; I.E., A TITLE-TYPE SERIES ADDED ENTRY.

CONTENT: CONTAINS A TITLE-TYPE SERIES ADDED ENTRY. THE SERIES IS TRACED DIFFERENTLY FROM THE FORM GIVEN IN THE SERIES UNTRACED OR TRACED DIFFERENTLY (490) FIELD. THE SERIES IS MADE BASED ON AACR2 RULE 21.30L. THE SECOND INDICATOR IS ALWAYS SET TO "0."

INTERNAL TAG: 8XX

DESC: N/A

EXTERNAL TAG: 830

DESC: FIRST INDICATOR IS NOT DEFINED - CONTAINS A BLANK.
    SECOND INDICATOR SPECIFIES THE NUMBER OF NONFILING CHARACTERS: 0.
    SUBFIELDS:
    A - UNIFORM TITLE HEADING
    D - DATE (OF TREATY SIGNING)
    F - DATE (OF A WORK)
    G - MISCELLANEOUS INFORMATION
    K - FORM SUBHEADING
    L - LANGUAGE
    N - MEDIUM OF PERFORMANCE (FOR MUSIC)   ***EXTAG DESC CONTINUED IN NOTES FIELD***

CHARACTER SET: EXPANDED 8-BIT ASCII FOR MARC RECORDS.

DATA SOURCE: STAFF

NOTES: ***EXTAG DESC CONTINUED***
    N - NUMBER OF PART/SECTION (FOR MUSIC, THIS MAY BE THE SERIAL, OPUS, OR THEMATIC NUMBER OR DATE USED AS A NUMBER)
    O - ARRANGED STATEMENT (FOR MUSIC)
    P - NAME OF PART/SECTION (OF A WORK)
    R - KEY (FOR MUSIC)
    S - VERSION
    V - VOLUME OR NUMBER

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY ELEMENT NAME

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
ITEM COUNT/PAGE COUNT	GPOS	0173
LANGUAGE CODE	GPOS	0141
LANGUAGE CODE	GPOS	0150
LC CARD NUMBER	GPOS	0146
LEADER, BYTES 0-23	GPOG	0092
LEGEND, LEADER, BYTES 6-9.	GPOS	0095
LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0106
LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108
LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
LOCAL NOTE	GPOS	0186
LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0163
MAIN ENTRY - CORPORATE NAME	GPOS	0162
MAIN ENTRY - PERSONAL NAME	GPOS	0161
MAIN ENTRY - UNIFORM TITLE HEADING	GPOS	0164
MAIN ENTRY IS BODY OF ENTRY INDICATOR	GPOS	0136
MATHEMATICAL DATA AREA	GPOS	0169
MODIFIED RECORD CODE	GPOS	0142
NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
NATURE OF CONTENTS CODE	GPOS	0133
ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0116
PHOTOREPRODUCTION NOTE	GPOS	0184
PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
PHYSICAL DESCRIPTION FIXED FIELD	GPOS	0113
POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.	GPOS	0117
RECORD DIRECTORY	GPOS	0110
RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.	GPOS	0119
REPORT NUMBER	GPOS	0160
ROMANIZED TITLE	GPOS	0166
SERIES ADDED ENTRY - CORPORATE NAME/TITLE	GPOS	0199
SERIES ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0200
SERIES STATEMENT - TITLE (TRACED)	GPOS	0174
SERIES UNTRACED OR TRACED DIFFERENTLY	GPOS	0175
SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0115
STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
STOCK NUMBER	GPOS	0140
SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
SUBJECT ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0189
SUBJECT ADDED ENTRY - CORPORATE NAME	GPOS	0188
SUBJECT ADDED ENTRY - GEOGRAPHIC NAME	GPOS	0192
SUBJECT ADDED ENTRY - PERSONAL NAME	GPOS	0187
SUBJECT ADDED ENTRY - TOPICAL HEADING	GPOS	0191
SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0190
SUMMARY, ABSTRACT, SCOPE, ETC. NOTE	GPOS	0183
TITLE STATEMENT	GPOS	0167
TYPE OF PUBLICATION DATE CODE	GPOS	0126
TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
TYPE OF REPORT AND PERIOD COVERED	GPOS	0182
UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
UNIFORM TITLE	GPOS	0165

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY INTERNAL TAG.

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
ADD	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
AEC	ADDED ENTRY - CORPORATE NAME	GPOS	0195
AED	ADDED ENTRY - TITLE TRACED DIFFERENTLY	GPOS	0198
AEM	ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0196
AEP	ADDED ENTRY - PERSONAL NAME	GPOS	0194
AEU	ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0197
CAL	LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
CAS	CATALOGING SOURCE	GPOS	0149
CRD	CODED MATHEMATICAL DATA	GPOS	0147
COL	PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
COP	COPY, ISSUE, OFFPRINT STATEMENT	GPOS	0153
DDC	DEWEY DECIMAL CLASSIFICATION NUMBER	GPOS	0158
EDN	EDITION STATEMENT	GPOS	0165
FFD	FIXED LENGTH DATA ELEMENTS	GPOS	0124
FFD	DATE 2	GPOS	0126
FFD	INDEX INDICATOR	GPOS	0137
FFD	DATE 1	GPOS	0127
FFD	MODIFIED RECORD CODE	GPOS	0142
FFD	DATE ENTERED ON FILE	GPOS	0145
FFD	TYPE OF PUBLICATION DATE CODE	GPOS	0126
FFD	ILLUSTRATION CODE	GPOS	0136
FFD	CATALOGING SOURCE CODE	GPOS	0143
FFD	INTELLECTUAL LEVEL CODE	GPOS	0131
FFD	FORM OF REPRODUCTION CODE	GPOS	0132
FFD	NATURE OF CONTENTS CODE	GPOS	0133
FFD	CONFERENCE PUBLICATION INDICATOR	GPOS	0135
FFD	FESTSCHRIFT INDICATOR	GPOS	0136
FFD	MAIN ENTRY IN BODY OF ENTRY INDICATOR	GPOS	0138
FFD	FICTION INDICATOR	GPOS	0139
FFD	BIOGRAPHY CODE	GPOS	0140
FFD	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE	GPOS	0129
FFD	LANGUAGE CODE	GPOS	0141
FFD	GOVERNMENT PUBLICATION CODE	GPOS	0134
GAC	GEOGRAPHIC AREA CODES	GPOS	0151
IMP	IMPRINT STATEMENT (AACR2)	GPOS	0170
ITM	GPO ITEM NUMBER	GPOS	0157
LAE	LANGUAGE CODE	GPOS	0150
LCN	LC CARD NUMBER	GPOS	0144
LEAD	INDICATOR COUNT, LEADER, BYTE 10.	GPOS	0099
LEAD	ENCODING LEVEL, LEADER, BYTE 17.	GPOS	0104
LEAD	SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
LEAD	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.	GPOS	0101
LEAD	LEADER, BYTES 0-23	GPOS	0092
LEAD	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
LEAD	RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
LEAD	TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096
LEAD	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.	GPOS	0097
LEAD	LEGEND, LEADER, BYTES 6-9.	GPOS	0095
LEAD	BLANKS, LEADER, BYTES 8-9.	GPOS	0098
LEAD	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.	GPOS	0103
LEAD	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0106
LEAD	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LEAD	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
LEAD	UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
LEAD	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.	GPOS	0105
NCC	GEOGRAPHIC CLASSIFICATION CODE	GPOS	0154
MDA	MATHEMATICAL DATA AREA	GPOS	0169
MEC	MAIN ENTRY - CORPORATE NAME	GPOS	0162
M26	MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0163
MEP	MAIN ENTRY - PERSONAL NAME	GPOS	0161
MEU	MAIN ENTRY - UNIFORM TITLE HEADING	GPOS	0164
N/A	DATE AND TIME OF LATEST TRANSACTION	GPOS	0112
N/A	STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
N/A	REPORT NUMBER	GPOS	0160
N/A	ITEM COUNT/PAGE COUNT	GPOS	0173
N/A	TYPE OF REPORT AND PERIOD COVERED	GPOS	0162
N/A	FUNDING INFORMATION NOTE	GPOS	0165
N/A	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
N/A	BLANK (LEADER, BYTE 19)	GPOS	0104
NAL	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
NLM	NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
NLO	LOCAL NOTE	GPOS	0186
NOA	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE	GPOS	0153
NOB	BIBLIOGRAPHY/DISCOGRAPHY NOTE	GPOS	0179
NOD	DISSERTATION NOTE	GPOS	0178
NOG	GENERAL NOTE	GPOS	0176
NOG	CONTENTS NOTE (FORMATTED)	GPOS	0180
NOU	LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
NOW	"WITH" NOTE	GPOS	0177
NOX	PHOTOREPRODUCTION NOTE	GPOS	0184
PHY	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.	GPOS	0118
PHY	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.	GPOS	0120
PHY	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0116
PHY	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.	GPOS	0122
PHY	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.	GPOS	0123
PHY	PHYSICAL DESCRIPTION FIXED FIELD	GPOS	0113
PHY	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.	GPOS	0117
PHY	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0115
PHY	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.	GPOS	0119
PHY	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0114
PHY	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE	GPOS	0121
RECD	RECORD DIRECTORY	GPOS	0110
ROM	ROMANIZED TITLE	GPOS	0166
SAC	SERIES ADDED ENTRY - CORPORATE NAME/TITLE	GPOS	0199
SAU	SERIES ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0200
SBN	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)	GPOS	0145
SDC	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER	GPOS	0159
SER	SERIES UNTRACED OR TRACED DIFFERENTLY	GPOS	0175
SET	SERIES STATEMENT - TITLE (TRACED)	GPOS	0174
STK	STOCK NUMBER	GPOS	0148
SUC	SUBJECT ADDED ENTRY - CORPORATE NAME	GPOS	0188
SUG	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME	GPOS	0192
SUM	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0189
SUP	SUBJECT ADDED ENTRY - PERSONAL NAME	GPOS	0187
SUT	SUBJECT ADDED ENTRY - TOPICAL HEADING	GPOS	0191
SUU	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0190

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
TIL	TITLE STATEMENT	GPOS	0107
UTI	UNIFORM TITLE	GPOS	0105
001	CONTROL NUMBER	GPOS	0111

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
LEA	INDICATOR COUNT, LEADER, BYTE 10.	GPOS	0099
LEA	ENCODING LEVEL, LEADER, BYTE 17.	GPOS	0102
LEA	SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
LEA	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.	GPOS	0101
LEA	LEADER, BYTES 0-23.	GPOS	0092
LEA	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
LEA	RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
LEA	TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096
LEA	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.	GPOS	0097
LEA	LEGEND, LEADER, BYTES 6-9.	GPOS	0095
LEA	BLANKS, LEADER, BYTES 8-9.	GPOS	0098
LEA	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.	GPOS	0103
LEA	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0106
LEA	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LEA	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108
LEA	UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
LEA	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.	GPOS	0105
LEA	BLANK (LEADER, BYTE 19)	GPOS	0104
REC	RECORD DIRECTORY	GPOS	0110
001	CONTROL NUMBER	GPOS	0111
005	DATE AND TIME OF LATEST TRANSACTION	GPOS	0112
007	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.	GPOS	0118
007	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.	GPOS	0120
007	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0116
007	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.	GPOS	0122
007	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.	GPOS	0123
007	PHYSICAL DESCRIPTION FIXED FIELD	GPOS	0113
007	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.	GPOS	0117
007	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0115
007	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.	GPOS	0119
007	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0114
007	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE	GPOS	0121
008	FIXED LENGTH DATA ELEMENTS	GPOS	0124
008	DATE 2	GPOS	0128
008	INDEX INDICATOR	GPOS	0137
008	DATE 1	GPOS	0127
008	MODIFIED RECORD CODE	GPOS	0142
008	DATE ENTERED ON FILE	GPOS	0125
008	TYPE OF PUBLICATION DATE CODE	GPOS	0126
008	ILLUSTRATION CODE	GPOS	0130
008	CATALOGING SOURCE CODE	GPOS	0143
008	INTELLECTUAL LEVEL CODE	GPOS	0131
008	FORM OF REPRODUCTION CODE	GPOS	0132
008	NATURE OF CONTENTS CODE	GPOS	0133
008	CONFERENCE PUBLICATION INDICATOR	GPOS	0135
008	FESTSCHRIFT INDICATOR	GPOS	0136
008	MAIN ENTRY IN BODY OF ENTRY INDICATOR	GPOS	0138
008	FICTION INDICATOR	GPOS	0139
008	BIOGRAPHY CODE	GPOS	0140
008	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY COD.	GPOS	0129
008	LANGUAGE CODE	GPOS	0141
008	GOVERNMENT PUBLICATION CODE	GPOS	0134
010	LC CARD NUMBER	GPOS	0144

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
020	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)	GPOS	0145
027	STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
034	CODED MATHEMATICAL DATA	GPOS	0147
037	STOCK NUMBER	GPOS	0148
040	CATALOGING SOURCE	GPOS	0149
041	LANGUAGE CODE	GPOS	0150
043	GEOGRAPHIC AREA CODES	GPOS	0151
050	LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
051	COPY, ISSUE, OFFPRINT STATEMENT	GPOS	0153
052	GEOGRAPHIC CLASSIFICATION CODE	GPOS	0154
060	NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
070	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
074	GPO ITEM NUMBER	GPOS	0157
082	DEWEY DECIMAL CLASSIFICATION NUMBER	GPOS	0158
086	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER	GPOS	0159
088	REPORT NUMBER	GPOS	0160
100	MAIN ENTRY - PERSONAL NAME	GPOS	0161
110	MAIN ENTRY - CORPORATE NAME	GPOS	0162
111	MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0163
130	MAIN ENTRY - UNIFORM TITLE HEADING	GPOS	0164
240	UNIFORM TITLE	GPOS	0165
241	ROMANIZED TITLE	GPOS	0166
245	TITLE STATEMENT	GPOS	0167
250	EDITION STATEMENT	GPOS	0168
255	MATHEMATICAL DATA AREA	GPOS	0169
260	IMPRINT STATEMENT (AACR2)	GPOS	0170
265	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
300	PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
302	ITEM COUNT/PAGE COUNT	GPOS	0173
440	SERIES STATEMENT - TITLE (TRACED)	GPOS	0174
490	SERIES UNTRACED OR TRACED DIFFERENTLY	GPOS	0175
500	GENERAL NOTE	GPOS	0176
501	"WITH" NOTE	GPOS	0177
502	DISSERTATION NOTE	GPOS	0178
504	BIBLIOGRAPHY/DISCOGRAPHY NOTE	GPOS	0179
505	CONTENTS NOTE (FORMATTED)	GPOS	0180
506	LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
513	TYPE OF REPORT AND PERIOD COVERED	GPOS	0182
520	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE	GPOS	0183
533	PHOTOREPRODUCTION NOTE	GPOS	0184
536	FUNDING INFORMATION NOTE	GPOS	0185
590	LOCAL NOTE	GPOS	0186
600	SUBJECT ADDED ENTRY - PERSONAL NAME	GPOS	0187
610	SUBJECT ADDED ENTRY - CORPORATE NAME	GPOS	0188
611	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0189
630	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0190
650	SUBJECT ADDED ENTRY - TOPICAL HEADING	GPOS	0191
651	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME	GPOS	0192
653	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
700	ADDED ENTRY - PERSONAL NAME	GPOS	0194
710	ADDED ENTRY - CORPORATE NAME	GPOS	0195
711	ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0196
730	ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0197

COOPERATIVE DATA ELEMENT DICTIONARY - GPOS INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
740	ADDED ENTRY - TITLE TRACED DIFFERENTLY	GPOS	0150
810	SERIES ADDED ENTRY - CORPORATE NAME/TITLE	GPOS	0155
830	SERIES ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0200

ELEMENT: Temporary Number-Block 01

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Designates a unique number assigned to each report at the input station and remaining with that report throughout the processing cycle for tracking purposes. It acts as a common identifier through the entire cycle until the actual accessioning activity.

CONTENT: A five-digit number is entered in Block 01 on the ATS 901 form.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: N/A

DATA SOURCE: Staff

NOTES: The temporary number is replaced by a machine generated accession number normally assigned during the final production processing.
    Related fields:
    @acc - Accession Number

ELEMENT: Publication Date-Block 02

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the actual or approximate date a report was published.

CONTENT: A six-digit number is entered in the order of Day, Month, Year in Block 02 on the ATS 901 form. If several dates are written on the report and one has not been identified as the publication date, then the latest date given is used, if no date is given, the year of publication is estimated and the date is entered as 770079. If a reporting period is given, the terminal date of the period is used in the absence of a designated publication date. In the case of conference proceedings or a single conference paper, the year of the conference is used if no other date is given.
Example: May 14, 1981 = 140581/1982 = 000082/june 1982 = 000682

INTERNAL TAG: Dpdt

DESC: N/A

EXTERNAL TAG: 095

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Corporate Source-Block 03

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the institution or corporate body that prepared the report.

CONTENT: An eight character alphanumeric code found in the Facility-issued Corporate Source Authority list is entered in block 03 in the ATS 901 form; the textual name of the source is entered at the top of the ATS 901 form in the space stating - Corporate Source. The first character is alpha, the second character is either alpha or numeric; and the remaining six characters are numeric.
Example: AI915766 Maryland Univ., College Park.

INTERNAL TAG: &src

DESC: N/A

EXTERNAL TAG: 152

DESC: N/A

CHARACTER SET: Alphanumeric/8 Characters

DATA SOURCE: Standard

NOTES: Related fields:
&csm - Corporate Source supplement
&ssc - Secondary Source Code
&csm - Corporate Source Monitor

ELEMENT: Document Release Form-Block 04

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the release authorization for NASA-sponsored reports.

CONTENT: One of four possible choices is entered in Block 04 on the ATS 901 form.
N - all non-NASA reports and NASA-sponsored reports not requiring authorization
b - a blanket authorization is attached
A - an authorization is attached
R - authorization has been requested

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: Is not part of file record.

CHARACTER SET: N/A

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: File ID-Block 06

SOURCE AGENCY: NBSA.

USE: Mandatory

DEFN: Specifies the type of handling required for a report and the STINS file in which the information concerning the report is to be stored.

CONTENT: A two-character mnemonic identifying the STINS file is preprinted in Block 06 on the ATS 901 form.
```
          STAR       - 3N
          LSTAR      - 1X
          DLS*       - 7N
          DLSL**     - 7X
          Record     - 9N
          Bibliograp. - 9X
          *Documents of limited significance, not announced in STAR, Publically Available).
          **Documents of limited significance with distribution limitations.
```

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: Is not part of file record.

CHARACTER SET: N/A

DATA SOURCE: Standard   Machine

NOTES: N/A

ELEMENT: Issue Number-Block 07

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the journal number in which the report is announced, or the processing batch in which unannounced items were processed.

CONTENT: A two-digit number is entered in Block 07 on the ATS 901 form signifying an issue or a batch control for processing.

INTERNAL TAG: Diss

DESC: N/A

INTERNAL TAG: 115

DESC: N/A

CHARACTER SET: Binary (one byte)

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Receipt Type-Block 08

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates in what manner and from what type of source the report was received for input.

CONTENT: One of five possible choices is circled in Block 08 on the ATS 901 form.
a - regular - all reports which have been individually acquired for the NASA Data Base
b - RQT - reports which are acquired as a result of a request from users of the NASA Data Base
c - loan - reports which are loaned to the Facility for processing and must be returned to the original source
d - Foreign Exchange - reports which are acquired from foreign sources having an exchange agreement with NASA
e - Foreign Non-Exchange - reports which are acquired from foreign sources not having an exchange agreement with NASA

INTERNAL TAG: Brct

DESC: N/A

EXTERNAL TAG: 130

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: Related fields:
Block 17 - Country of Finance, Origin, Publication
Block 45 - DCAF Number

ELEMENT: NASA Formal Series-Block 09

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates if a document is in the NASA Formal Series.

CONTENT: One of seven letters is circled in Block 09 on the ATS 901 form.
  f - Low Contractor Report (NASA-CR-)
  g - High Contractor Report (NASA-CR-)
  h - Conference Publication (NASA-CP-)
  i - Technical Memorandum (NASA-TM-)
  j - Reference Publication (NASA-RP-)
  k - Technical Publication (NASA-TP-)
  l - Not in series (all non-NASA documents)

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphabitic

DATA SOURCE: Document

NOTES: Related fields:
  Srrn - Report Number

ELEMENT: Incomplete List of Contracts-Block 10

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether all the contract and grant numbers have been cited.

CONTENT: One of two choices is circled in Block 10 on the ATS 901 form.
    'y' (yes) used if there are more than ten contracts or the report states the list of contracts is incomplete.
    'n' (no) used if there are ten or less contracts cited under the 2cnt mnemonic.

INTERNAL TAG: 911c

DESC: N/A

EXTERNAL TAG: .092

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: If 'yes', the phrase 'et al' is machine generated.
    Related fields:
    2cnt - Contract/Grant Number

ELEMENT: Receipt Date-Block 13

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the date the report was received.

CONTENT: The date is stamped on the report. A six-digit number is entered in block 13 on the AFS 901 form in the order Day, Month, Year.
Example: July 2, 1982 = 020782.

INTERNAL TAG: arcd

DESC: N/A

EXTERNAL TAG: 245

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: N/A

PAGE NUMBER 0211

ELEMENT: Pagination (Page Count) Block 14

    SOURCE AGENCY: NASA

    USE: Mandatory

DEFN: Indicates the total number of pages in a report.

    CONTENT: A five-digit number with leading zeros (00273) is entered in Block 14 on the ATS 901 form.
        Page Number Determination
        1. If the report is in the microfilm series, the count equals the number of microfilm frames.
        2. If the report is in hardcopy form, then all pages of the report, including the cover and any Roman numeral
           pages, are counted. Excluded are attached transmittal letters and distribution lists.
        3. If the report is from DOE or other government agencies, the pages need not be counted because the tape of
           the report indicates the page count.

    INTERNAL TAG: @pag

    DESC: N/A

    EXTERNAL TAG: 098

    DESC: N/A

    CHARACTER SET: Binary (two bytes)

    DATA SOURCE: Document

    NOTES: N/A

ELEMENT: Incomplete List of Authors-Block 15

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether all the authors designated on a report have been cited.

CONTENT: One of two choices is circled in Block 15 on the ATS 901 form.
  'y' (yes) used if there are more than ten authors or the report states the list of authors is incomplete.
  'n' (no)   used if there are ten or less authors cited under the Daut mnemonic.
  NOTE: Only ten authors may be recorded per report.

INTERNAL TAG: Juli

DESC: N/A

EXTERNAL TAG: 089

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: If 'yes', more than ten authors or an incomplete list, the phrase 'et al' is machine generated in the author field.
  Related fields:
  Daut - Author

ELEMENT: Document Language-Block 16

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the language in which the report is written.

COMMENT: A two-letter code designating the language of a report is entered in Block 16 on the ATS 901 form. The code AA is used for reports in more than one language, i.e., a report is in a foreign language but has an English summary. If the report is in English, with a foreign language abstract, or summary, then AA is not used, but EN for English.
Example: EN = English/IT = Italian/RU = Russian

INTERNAL TAG: Sign

DESC: N/A

EXTERNAL TAG: 099

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
Block 17 - Country of Finance, Origin, Publication
Block 18 - Translated Document
4tra - Translation Note
Sign - Language Note

ELEMENT: Country of Finance-Block 17

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates country responsible for financial support.

CONTENT: A two-character code taken from a standard list of countries is entered in Block 17 on the ATS 901 form. The code 01, International Organization, may be used for finance.

INTERNAL TAG: 3cfa

DESC: N/A

EXTERNAL TAG: 117

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: Related fields:
    Block 08 - Receipt Type
    Block 18 - Translated Document
    Block 29 - Financial Support

ELEMENT: Country of Origin-Block 17

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates country responsible for intellectual origin.

CONTENT: A two-character code taken from a standard list of countries is entered in Block 17 on the ATS 901 form. In the case of a translation, the country of origin represents the source of the original report before translation. The code 01, International Organization, may be used for finance and publication, but a specific geographic location must be supplied for the country of origin.

INTERNAL TAG: 3cor

DESC: N/A

EXTERNAL TAG: 119

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: Related fields:
     Block 08 - Receipt Type
     Block 18 - Translated Document
     Block 29 - Financial Support

PAGE NUMBER 0216

ELEMENT: Country of Publication-Block 17

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates country of publication.

CONTENT: A two-digit code taken from a standard list of countries is entered in Block 17 on the ATS 901 form. The code of International Organization, may be used for publication.

INTERNAL TAG: @cpb

DESC: N/A

EXTERNAL TAG: 710

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: Related Fields:
    Block 16 - Document Type
    Block 18 - Translated Document
    Block 29 - Financial Support
    @pop - Place of Publication

PAGE NUMBER 0217

ELEMENT: Translated Document-Block 18

SOURCE AGENCY: NASA

USE: Mandatory

DEFS: Indicates whether the report is a translation.

CONTENT: One of two choices is circled in Block 18 on the ATS 901 form.
        'y' (yes)   used if the report is a translation.
        'n' (no)   used if the report is in its original language.

INTERNAL TAG: dtra

DESC: N/A

EXTERNAL TAG: 007

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: Related fields:
        dtra - Translation Note
        slgn - Language Note
        Block 16 - Document Language
        Block 17 - Country of Finance, Origin, Publication

ELEMENT: Copyrighted (Y or N) Block 19

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates if a report is copyrighted. Reports are identified with a copyright symbol, the date, and the location of the report source.

CONTENT: One of two choices is circled in Block 19 on the ATS 901 form.
     'y' (Yes)
     'n' (no)
'n' is precircled on the form. If the report is copyrighted, 'n' is red out and 'y' is circled.

INTERNAL TAG: Bcrt

DESC: N/A

EXTERNAL TAG: ORB

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Document

NOTES: Copyright indicators determine the action permitted with respect to producing microfiche or otherwise reproducing the report. Copyrighted NASA formal reports are exempt from copyright restrictions. Many other organizations, for example AGARD, permit the NASA facility to override the copyright.
    Related fields:
    Block 20 - Reproduction Authorized
    Block 22 - Copyright Override
    Block 22 - Microfiche Reproduction Authorized

ELEMENT: Reproduction Authorized (Y or N) - Block 20

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates if a copyright notation on the report can be overridden affecting the authority of the NASA Facility to copy microfiche or otherwise reproduce the report.

CONTENT: One of two choices is circled in Block 20 on the ATS 901 form.
       'n' (no)   the copyright cannot be overridden.
       'y' (yes) the copyright can be overridden.
       If the copyright is overridden, the report may be reproduced at the NASA Facility.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: Is not part of the file record.

CHARACTER SET: N/A

DATA SOURCE: Document

NOTES: Related fields:
       Block 19 - Copyright
       Block 22 - Copyright Override
       Block 22 - Microfiche Reproduction Authorized

PAGE NUMBER 0220

ELEMENT: Report Class (A) Block 21

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether the report is a Progress Report, Final Report, or Topical Report.

CONTENT: One of three choices is circled in Block 21 on the ATS.901 form.
        P - Progress Report
        F - Final Report
        T - Topical Report, neither a final report nor any type of progress report

INTERNAL TAG: $rcl

DESC: N/A

EXTERNAL TAG: 086

DESC: N/A

CHARACTER SET: bit switch

DATA SOURCE: Document   Staff

NOTES: Related fields:
        $tls - Title Supplementary

PAGE NUMBER 0221

ELEMENT: Report Class (B) Block 21

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether the report is a Progress Report, Final Report, or Topical Report.

CONTENT: One of three choices is circled in Block 21 on the ATS 901 form.
        P - Progress Report
        F - Final Report
        T - Topical Report, neither a final report nor a progress report

INTERNAL TAG: 8tpr

DESC: N/A

EXTERNAL TAG: 093

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Document   Staff

NOTES: Related fields:
        8tls - Title Supplementary

ELEMENT: Microfiche Reproduction Authorization-Block 22

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates if a report can be legally microfiched.

CONTENT: A preprinted X is found in the appropriate box in Block 22 on the ATS 901 form indicating 'yes' or 'no'.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: Is not part of file record.

CHARACTER SET: N/A

DATA SOURCE: Document   Staff

NOTES: Related fields:
        Block 19 - Copyright
        Block 20 - Reproduction Authorization
        Block 22 - Copyright Override

ELEMENT: Copyright Override-Block 22

SOURCE AGENCY: NASA

USE: Required

DEFN: Indicates that permission has been received to ignore a copyright based on blanket or specific override authorization.

CONTENT: An X is entered in Block 22 on the ATS 901 form if the copyright has been overridden, otherwise the space is left blank.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: Is not part of file record.

CHARACTER SET: N/A

DATA SOURCE: Document   Staff

NOTES: Related fields:
        Block 19 - Copyright
        Block 20 - Reproduction Authorization
        Block 22 - Microfiche Reproduction Authorization

ELEMENT: Microfiche Code Prefix-block 21

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the broadest possible distribution of microfiche originated by NASA and produced by the facility. Dictates the amount of microfiche to be produced for distribution to users.

CONTENT: One of ten choices is circled in Block 23 on the ATS 901 form representing the distribution level for a report. If no microfiche is being made for the report, or the existing microfiche may not be distributed, zero is entered. NASA-sponsored and originated reports are given the code according to the NASA report number. The code for all other reports and for documents processed in the LSTAR series is determined by use of a table.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: This is not a file record.

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: Related fields: @rpn - Report Number
                        @map - Sales and Pricing
                        Block 22 - Microfiche Authorized
                        Block 24 - Microfiche Code Suffix
                        Block 26 - Microfiche Availability
                        Block 27 - Hardcopy Availability
                        Block 30 - Access Level-NASA
                        Block 31 - Access Level-Other Government
                        Block 32 - Access Level-non-Government
                        Block 37 - NTIS Availability

ELEMENT: Microfiche Code Suffix-block 25

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether the report being microfiched is a low-numbered or high-numbered NASA formal, or non-NASA.

CONTENT: One of seven choices is circled in Block 24 on the ATS 901 form.
        0 - No Microfiche
        1 - NASA Sponsored (Low-numbered)
        2 - Non NASA Sponsored
        3 - NASA Sponsored (High-Numbered - News Release/EP/Patent Appl.)
        4 - PEDD N60K Series
        5 - NASA-TM Copyright Transl.
           JPRS Copyright Transl.
           DOE Copyright Transl.
        6 - Foreign Documents Microfiched by NASA or KSA
           Converted Microfiche Originated by BRITISH BIC or BLL
        NOTE: The numbers 4, 5, and 6 are handwritten on the Block.

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: This is not a file field.

CHARACTER SET: Numeric

DATA SOURCE: Document   Staff

NOTES: Related fields: Brpn - Report Number
                      Bmkp - Sales and Pricing
                      Block 22 - Microfiche Authorized
                      Block 23 - Microfiche Code Prefix
                      Block 26 - Microfiche Availability
                      Block 27 - Hardcopy Availability
                      Block 30 - Access Level-NASA
                      Block 31 - Access Level-Other Government
                      Block 32 - Access Level-non-Government
                      Block 37 - NTIS Availability

ELEMENT: Microfiche Source Origin-block 25

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indentifies the originator or supplier of microfiche master.

CONTENT: One of seven choices is circled in Block 25 on the ATS.901 form.
        0 - No Microfiche
        1 - Facility
        2 - DDC (DTIC)
        3 - DOE
        4 - ESA
        5 - NTIS
        6 - Other

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: This is not a file field.

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
    Block 26 - Microfiche Availability

PAGE NUMBER 0227

ELEMENT: Microfiche Availability Code-Block 26

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the availability of the report in microfiche form.

CONTENT: One of seven choices is circled in Block 26 on the ATS-901 form. Box 1 is circled to indicate availability of microfiche. One of boxes 2 through 7 is circled to identify the reason for nonavailability of microfiche.

    1 - YES - Available in Microfiche
    2 - NO - Poor Print
    3 - NO - Size/Shape
    4 - NO - Copyright
    5 - NO - Source Prohibition
    6 - NO - Administration
    7 - NO - Other

INTERNAL TAG: ARUF

DESC: N/A

EXTERNAL TAG: 077

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document Staff

NOTES: Related Fields:
       Block 27 - Hardcopy Availability

PAGE NUMBER 0228

ELEMENT: Hardcopy Availability Code-Block 27.

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the availability of the report in hardcopy form and the legal or physical reproducibility of the report. If the copyright has been overridden, the legal restriction is waived.

CONTENT: One of eight choices is circled in Block 27 on the ATS 901 form. Box 1 is circled to indicate availability of hardcopy. One of boxes 2 through 8 is circled to identify the reason for nonavailability of hardcopy.
    1 - YES - Available in Hardcopy
    2 - NO - Poor Print
    3 - NO - Size/Shape
    4 - NO - Copyright
    5 - NO - Source Prohibition
    6 - NO - Administration
    7 - NO - Microfiche Only
    8 - NO - Other

INTERNAL TAG: BBHE

DESC: N/A

EXTERNAL TAG: 07C

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
    Block 26 - Microfiche Availability

ELEMENT: Document Class-Block 28

SOURCE AGENCY: NASA

USE: Mandatory

DESC: Indicates the publication type of the report.

CONTENT: One of twelve choices is circled in Block 28 on the ATS 901 form.
```
        a - Technical Report
        b - Journal Article
        c - Reprint
        d - Preprint
        e - Conference Paper
        f - Journal Issue
        g - Colloquia Paper, Proceedings
        h - Book, Monograph
        i - Collected Works
        j - Conference Volume
        k - Thesis
        l - Other - A single in a Collected Work,
                or Patent or Patent Application
```

INTERNAL TAG: adcl

DESC: N/A

EXTERNAL TAG: 084

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Financial Support—Block 29

SOURCE AGENCY: NASA

USE: Mandatory

DEFS: Indicates source of financial support for a report.

CONTENT: One of thirty-two choices is circled in Block 29 on the ATS 901 form.
If NASA, the specific center responsible is identified; if non-NASA, the specific other organization is identified.

INTERNAL TAG: dfsg

DESC: N/A

EXTERNAL TAG: 070

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
Acnt - Contract/Grant Number
Block 08 - Document Type
Block 09 - NASA Factual Series
Block 17 - Country of Finance, Origin, Publication

ELEMENT: Access Level-NASA-Block 30

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the lowest level at which a report is available to users within NASA.

CONTENT: One of four possible choices is precircled in Block 30 on the ATS 901 form.
    3 - None
    2 - NASA Headquarters
    1 - NASA Centers
    0 - NASA Contractors

INTERNAL TAG: aacl

DESC: N/A

EXTERNAL TAG: 106

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: Related fields:
        Block 23 - Microfiche Code Prefix
        Block 24 - Microfiche Code Suffix
        Block 31 - Access Level-Other Government
        Block 32 - Access Level-Non-Government

ELEMENT: Access Level-Other Government-Block 31

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates lowest level at which a report is available to users within government agencies other than NASA.

CONTENT: One of three possible choices is precircled in Block 31 on the ATS 901 form.
  2 - None
  1 - Other Government Agencies.
  0 - Other Government Contractors

INTERNAL TAG: @acl

DESC: N/A

EXTERNAL TAG: 130

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: Related fields:
  Block 23 - Microfiche Code Prefix
  Block 24 - Microfiche Code Suffix
  Block 30 - Access Level-NASA
  Block 32 - Access Level-non-Government

ELEMENT: Access Level-Non-Government-Block 32

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates lowest level at which report is available to non-government users.

CONTENT: One of three possible choices is precircled in Block 32 on the ATS 901 form.
        2 - None
        1 - Domestic
        0 - Foreign

INTERNAL TAG: Aacl

DESC: N/A

EXTERNAL TAG: 130

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Standard

NOTES: Related fields:
        Block 23 - Microfiche Code Prefix
        Block 24 - Microfiche Code Suffix
        Block 30 - Access Level-NASA
        Block 31 - Access Level-Other Government

ELEMENT: Document Security Classification-Block 33

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the security classification status of a report.

CONTENT: One of five choices is circled in Block 33 on the ATS 901 form.
   a - Unclassified
   b - Confidential
   c - Confidential Restricted Data
   d - Secret
   e - Secret Restricted Data

INTERNAL TAG: ddsc

DESC: N/A

INTERNAL TAG: 101

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document Staff

NOTES: Related fields:
      Block 34 - Title Security Classification
      Block 35 - Downgrading - Declassification Group

ELEMENT: Title Security Classification-Block 34

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the security classification status of a title.

CONTENT: One of five choices is circled in Block 34 on the ATS 901 form.
        a - Unclassified
        b - Confidential
        c - Confidential Restricted Data
        d - Secret
        e - Secret Restricted Data

INTERNAL TAG: 8tsc

DESC: N/A

EXTERNAL TAG: 078

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
      Block 33 - Document Security Classification
      Block 35 - Downgrading - Declassification Group

ELEMENT: Downgrading - Declassification Group-Block 35

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the declassification schedule date of the report. The date indicates either automatic declassification or downgrading or review for declassification or downgrading.

CONTENT: On non-NASA reports zero is circled in Block 35 on the ATS 901 form for none. On NASA reports a declassification schedule date is recorded.

INTERNAL TAG: addg

DESC: N/A

EXTERNAL TAG: 120

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
       Block 33 - Document Security Classification
       Block 34 - Title Security Classification

ELEMENT: Special Handling-Block 36

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates that the distribution of the report is limited and may require permission from a specific source to gain access to it.

CONTENT: One of seven choices is circled in Block 36 on the ATS 901 form.
    a - None, no special handling is indicated
    b - Official Use Only
    c - Special Release, a NASA report states that requestor must obtain permission from NASA originating office
    d - Service Report, NASA-TM-SX, reports prepared by NASA at the request of a specific government agency
    e - Proprietary Information
    f - Patent Office Secrecy Notice
    g - Special Domestically Available, a report states that it may not be released to foreign sources or non-US citizens

INTERNAL TAG: Smap

DESC: N/A

EXTERNAL TAG: 121

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
    Smap - Sales Agency and Pricing
    Block 23 - Microfiche Code Prefix
    Block 24 - Microfiche Code Suffix
    Block 30 - Access Level-NASA
    Block 31 - Access Level-Other Government
    Block 32 - Access Level-non-Government

ELEMENT: NTIS Hardcopy Available-Block 37

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether a report is available from NTIS in hardcopy form.

CONTENT: One of four choices is circled in Block 37 on the ATS 901 form.
      0 - Not Available
      1 - Hardcopy Available Only
      2 - Microfiche Available Only
      3 - Hardcopy and Microfiche Available

INTERNAL TAG: Each

DESC: N/A

EXTERNAL TAG: 090

DESC: N/A

CHARACTER SET: Biz switch

DATA SOURCE: Document   Staff

NOTES: Related fields:
      Map, Sales Agency and Pricing
      Block 19 - Copyright
      Block 20 - Reproduction Authorized
      Block 23 - Microfiche Code Prefix
      Block 24 - Microfiche Code Suffix
      Block 25 - Microfiche Source Origin
      Block 26 - Microfiche Availability
      Block 27 - Hardcopy Availability

ELEMENT: NTIS Microfiche Available-Block 37

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates whether a report is available from NTIS in microfiche form.

CONTENT: One of four choices is circled in Block 37 on the ATS 901 form.
          0 - Not Available from NTIS
          1 - Hardcopy Available Only
          2 - Microfiche Available Only
          3 - Hardcopy and Microfiche Available

INTERNAL TAG: @mcm

DESC: N/A

EXTERNAL TAG: 091

DESC: N/A

CHARACTER SET: Bit switch

DATA SOURCE: Document   Staff

NOTES: Related fields:
          dsap - Sales Agency and Pricing
          Block 19 - Copyright
          Block 20 - Reproduction Authorized
          Block 23 - Microfiche Code Prefix
          Block 24 - Microfiche Code Suffix
          Block 25 - Microfiche Source Origin
          Block 26 - Microfiche Availability
          Block 27 - Hardcopy Availability

ELEMENT: Abstract Preparation-Block 38

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the source of the abstract.

CONTENT: One of nine choices is circled in Block 38 on the ATS 901 form.
     a - Facility
     b - Translation
     c - DDC (DTIC)
     d - DOE
     e - ESA
     f - Content Note
     g - Dissertation Abstract
     h - Author
     0 - None

INTERNAL TAG: &abp

DESC: N/A

EXTERNAL TAG: 131

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
    &abs - Abstract
    &abu - Abstract Author
    &ann - Analytic Note
    block 39 - Abstract Qualification

ELEMENT: Abstract Qualification-block 39

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the extent to which the original abstract has been revised.

CONTENT: One of five choices is circled in Block 39 on the ATS 901 form.
      1 - No Change
      2 - Shortened
      3 - Correct Grammar
      4 - Rewrite
      5 - Abstract is on Tape

INTERNAL TAG: N/A

DESC: N/A

EXTERNAL TAG: N/A

DESC: This is not a file field.

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: Related fields:
      @abs - Abstract
      @aba - Abstract Author
      @ann - Analytic Note
      Block 38 - Abstract Preparation

ELEMENT: Subject Fields-Block 40

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the NASA Subject Category appropriate to the content of the report. The NASA Subject Category assigned determines the location of the report in the STAR journal.

CONTENT: One of seventy-five numbered categories used to identify the overall content of a given report is entered in Block 40 on the ATS 901 form. NASA Subject Categories are listed in the front matter of STAR journal, the NASA Category Guide, and the NASA Scope and Coverage Document.

INTERNAL TAG: scat

DESC: N/A

EXTERNAL TAG: 116

DESC: N/A

CHARACTER SET: Binary (one byte)

DATA SOURCE: Document   Staff

NOTES: The NASA Subject Category is predetermined in the case of NASA formal reports and appears on the COSATI page of the report.
Related fields:
Block 43 - Analytic Subsidiary Subject Code

ELEMENT: References-Block 41

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates if a report contains bibliographic references.

CONTENT: One of three choices is circled in Block 41 on the ATS 901 form.
        0 - None
        1 - One Reference.
        2 - Many References

INTERNAL TAG: bbbr

DESC: N/A

EXTERNAL TAG: 163

DESC: N/A

CHARACTER SET: Binary (two bytes)

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Analytic Subsidiary Subject Code-Block 43

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the NASA Subject Category appropriate to the content of the subsidiary item. The NASA Subject Category assigned determines the location of the report in the STAR journal.

CONTENT: NASA Subject categories consist of seventy-five numbered categories which are used to identify the overall content of given report. Each analytic subsidiary is assigned one of the seventy-five NASA Subject Categories. NASA Subject Categories are listed in the front matter of STAR journal, the NASA Category Guide, and the NASA Scope and Coverage Document.

INTERNAL TAG: δaмя

DESC: N/A

EXTERNAL TAG: 023

DESC: N/A

CHARACTER SET: Binary (one byte)

DATA SOURCE: Document   Staff

NOTES: Related fields:
&csc - Subject Group COSATI Subject Category
Block 40 - NASA Subject Category

ELEMENT: Analytic Primary-Block 44/Number-Block 42

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies a report as an analytic primary. Indicates the total number of subsidiaries within the analytic primary.

CONTENT: 3amp is precircled in Block 44 on the ATS 901 form and the total number of subsidiaries is entered in Block 42 on the ATS 901 form.
If the report is not an analytic primary or subsidiary these mnemonics are crossed out.

INTERNAL TAG: 3amp

DESC: N/A

EXTERNAL TAG: 024

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Analytic Subsidiary-Block 44/number-Block 42

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies a report as an analytic subsidiary. Indicates the sequence number of an individual subsidiary.

CONTENT: 3ans is precircled in Block 44 on the ATS 901 form. The sequence number of the individual subsidiary is entered in Block 42 on the ATS 901 form.

INTERNAL TAG: 3ans

DESC: N/A

EXTERNAL TAG: 023

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: N/A

ELEMENT: Distribution Control and Analysis File (DCAF)-block 45.
Foreign Source of Data

SOURCE AGENCY: NASA

USE: Mandatory

DEFS: The Scientific and Technical Information (STI) Distribution Control and Analysis File (DCAF) is a computerized file
containing the profiles of organizations and individuals approved by NASA to receive information services and/or
specified products.

CONTENT: The appropriate DCAF code is stamped on the front cover of each report identifying the sender. If the sender is not on
the DCAF list, a unique identification number is generated and stamped on the front cover of the report. The
identification number consists of seven digits - the first two digits identify the regional codes, the following three
digits identify the country, and the last two digits can be used for further future identification needs. The DCAF
code stamped on the report is entered in Block 45 on the ATS-901 form.

INTERNAL TAG: adcf

DESC: N/A

EXTERNAL TAG: 202

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
Block 8 - Receipt Type

ELEMENT: Distribution Control and Analysis File (DCAF)-block 45
        Foreign Source of Data

SOURCE AGENCY: NASA

USE: Mandatory

DEFS: The Scientific and Technical Information (STI) Distribution Control and Analysis File (DCAF) is a computerized file
    containing the profiles of organizations and individuals approved by NASA to receive information services and/or
    specified products.

CONTENT: The appropriate DCAF code is stamped on the front cover of each report identifying the sender. If the sender is not on
    the DCAF list, a unique identification number is generated and stamped on the front cover of the report. The
    identification number consists of seven digits - the first two digits identify the regional codes, the following three
    digits identify the country, and the last two digits can be used for further future identification needs. The DCAF
    code stamped on the report is entered in Block 45 on the ATS 901 form.

INTERNAL TAG: ddcf

DESC: N/A

EXTERNAL TAG: 202

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
        Block 8 - Receipt Type

PAGE NUMBER 0249

ELEMENT: Contract/Grant Number-acnt

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates financial support given to the performing organization for the research reported,

CONTENT: Contract, grant, and order numbers are found on the report and entered according to standardized formats. Contract
    numbers are preceded by [ct] or [cts], grant numbers by [gr] or [grs]. Contract numbers are cited before all other
    numbers. The correct order is: NASA Contracts@NASA Grants@NASA Orders@other Contracts@Other Grants. A maximum of 10
    entries may be cited in the CNT field and each entry is limited to 30 characters and spaces. Entries are separated by
    an @ sign.
    Example: acnt [gr]NsG-7002@[ct]F33615-79-C-0012@[gr]NSF GI-36567

INTERNAL TAG: acnt

DESC: N/A

EXTERNAL TAG: 179

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: N/A

PAGE NUMBER 0250

ELEMENT: Author-@aut

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies the names of persons responsible for writing the report. Principal Investigators, editors, or compilers are considered authors. Project managers and directors are not considered authors unless specifically identified as having participated in preparation of the report.

CONTENT: A two-digit precode is recorded followed by the inverted name - last name, first name, middle name or initial. Names are initial capitalized with periods after initials. A maximum of ten authors is recorded. Succeeding authors are separated with an @ sign and the appropriate precode. Titles such as Dr., Mrs., etc. are dropped, but Jr., Sr., etc. are cited following the surname.
Example: @aut. 01Streeks, Michael J.@02Bronstein, S. M.@03 Kadziel-Uber, John F., Jr.

INTERNAL TAG: @aut

DESC: N/A

EXTERNAL TAG: 150

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
@paa - Personal Author Affiliate
@aat - Personal Author Type
Block 15 - Incomplete List of Authors

ELEMENT: Title (Unclassified) -@utl

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: The descriptive designation of a publication as given on the title page or cover cited as it appears except for some formatting standards or typographical errors; British spelling variations are retained.

CONTENT: First character is alpha and uppercase. The format of the title is in free text. The GPO Style Manual and the NASA-SP-7 are used as the authority for capitalization, abbreviation, numeration, punctuation, and hyphenation. Verbalization guidelines are followed for symbols, Greek letters, subscripts, superscripts, exponents, mathematical formulas, nuclear physics reactions, and chemical terminology. Length is variable. A descriptive title is generated if one is missing and is preceded by the code [?].
Example: @utl Life-cycle analysis of aircraft turbine engines. Part 2: Executive summary

INTERNAL TAG: @utl

DESC: N/A

INTERNAL TAG: 195

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
@tls - Title Supplementary
@txt - Title Extension
@uft - Foreign Language Title

ELEMENT: Form ol Original Input-afoi

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Describes the physical form in which the report is received: either hardcopy or microfiche or both.

CONTENT: A two-character alphabetic code is entered to indicate hardcopy (HC) or microfiche (MF). If both forms are available, the two codes are separated by a slash, with the HC appearing first.
Example: afoi HC/MF

INTERNAL TAG: afoi

DESC: N/A

EXTERNAL TAG: 241

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: Related fields:
Block 25 - Microfiche Source Origin
Block 26 - Microfiche Availability
Block 27 - Hardcopy Availability
Block 37 - NTIS Availability

ELEMENT: Corporate Source Supplement-@css

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies the smallest subset of the corporate source.

CONTENT: A free form description of the smallest element of the primary corporate source. The entry ends with a period. Only those abbreviations specifically designated are allowed.
      Example: @css Dept. of Physics.
             @css Nuclear Reactor Div.

INTERNAL TAG: @css

DESC: N/A

EXTERNAL TAG: 143

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Corporate source supplements are not assigned when a NASA center is the corporate source.
    Related fields:
       @ssc - Secondary Source Code
       Block 03 - Primary Corporate Source

ELEMENT: Secondary Source Code-@ssc

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies each corporate source, other than the primary corporate source, that participated in the preparation of a report. The corporate source is entered in Block 02 on the ATS 901 form and the succeeding corporate sources are entered under the @ssc mnemonic. NASA is always given as the primary corporate source, when listed as a source.

CONTENT: An eight character alphanumeric code taken from the Corporate Source Authority List is entered under the @ssc mnemonic. If there is more than one secondary source, the codes are separated by an @ sign.
Example: @ssc HX270170@SY423852

INTERNAL TAG: @ssc

DESC: N/A

EXTERNAL TAG: 142

DESC: N/A

CHARACTER SET: Alphanumeric (eight characters)

DATA SOURCE: Standard

NOTES: Related fields:
@spb - Special Publication Note: Identifies the textual name of the secondary Corporate Source

ELEMENT: Title Supplementary-atls

SOURCE AGENCY: NASA

USE: If Available

DEFS: Identifies descriptive supplements and subtitles.

CONTENT: Work period, report series names, and thesis designations are cited as title supplements. Phrases such as 'Research Report', 'Scientific Report', 'Technical Documentary Report', 'Technical Memorandum', and 'Technical Report' must include a date range to be cited. Report series and thesis designations may or may not include a date range. Dates are cited Day, Month, Year; months are abbreviated to three letters. The year is cited at the end of the date range unless the work period includes more than one year. Report series and thesis designations are cited before work periods; the work period follows after a period and two spaces.
Example: atls Ph.D. Thesis. Final Report, 1 Feb. - 30 Dec. 1979

INTERNAL TAG: atls

DESC: N/A

EXTERNAL TAG: 198

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
        Block 21 - Report Class

PAGE NUMBER 0256

ELEMENT: Unclassified Foreign Title-Suft

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates the foreign language title of the report.

CONTENT: All characters are uppercase. Only specific indicates symbols and formulas are cited lowercase. The suft is used only when the title is translated in-house.

INTERNAL TAG: Suft

DESC: N/A

EXTERNAL TAG: 147

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
        Sutl - Unclassified Title
        Stls - Title Supplement

ELEMENT: Personal Author Type-apat

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies an author of a report as the editor or compiler.

CONTENT: The two-digit precorde preceding the author entered in the aaut field is entered, and is followed by the abbreviation ed. or comp. If more than one author is identified as editor or compiler, the apat is given for each author.
Example: aaut 01Bronstein, S. R.a02Wilson, J. D.a03 Dinkin, L.
apat 01ed.a03comp.

INTERNAL TAG: apat

DESC: N/A

EXTERNAL TAG: 153

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: In the NASA Earth Resources Survey Program reports, the Principal Investigator is identified as such in the apat field.
Also, on NASA Patents and Patent Applications, inventors are identified with a apat.
aaut 01Bronstein, S. R.   aaut 01Dinkin, L.
apat 01inventor (to NASA)   apat 01Principal Investigator
Related fields:
aaut - Author
apaa - Personal Author Affiliation

ELEMENT: Personal Author Affiliation-@pas

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies corporate affiliation of a personal author if other than corporate source of the report.

CONTENT: A two-digit precode corresponding to the precode of the author being affiliated is entered and is followed by parentheses enclosing the name of the corporate affiliation and the geographic location. Names are written as they appear in the Corporate Source Authority List, but widely accepted acronyms for companies, agencies, etc. may be used instead, i.e., DOE, JPL, GE.
Example: @pas 01(DOE)@n3(Maryland Univ., College Park)

INTERNAL TAG: @pas

DESC: N/A

EXTERNAL TAG: 155

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
        @aut - Author
        @pat - Personal Author Type
        Block 15 - Incomplete List of Authors

ELEMENT: Primary Note-∂prn

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: References the primary note of an analytic in which the subsidiary appears.

CONTENT: The note begins with the phrase "in its" or the word "in" succeeded by the following data: abbreviated form of the primary corporate source (if different from that of the subsidiary); abbreviated title of the primary; primary report number in parentheses (if a translation); the code (date); the page range (if pages are consecutively numbered); or the sum total of pages (if pages are not consecutively numbered); and the primary report classification in parentheses (if different than that of the subsidiary). For spacing rules see examples.

Example: ∂prn In its Transl. of Russian Aeron. Rept. (JPRS-L/2345) [date] p 67-92
         ∂prn In JPL Conf. on Semicond. (Secret Report) [date] 5 p

INTERNAL TAG: ∂prn

DESC: N/A

EXTERNAL TAG: 159

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: Titles are abbreviated according to Chemical Abstracts. Corporate sources can be identified by their (recognized) acronym or by using the approved list of corporate source abbreviations.
       Related fields:
         ∂prs - Presentation Note

ELEMENT: Place of Publication-@pop

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the location where the report was printed.

CONTENT: The place of publication is cited if different from the geographical location of the corporate source. It usually takes the form of city, state, country. The state or country is not cited with well-known cities. When several cities are listed with a publisher, only the first city given is cited; however, when the first city given is a foreign location, the first domestic city is also cited, in parentheses, following the foreign city.
Example: @pop Oxford (New York)

INTERNAL TAG: @pop

DESC: N/A

EXTERNAL TAG: 157

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: It is possible to have a POP but not a PUB cited. This happens when the report is prepared in one location and is published in another location.
Example: Block 03 - Primary Corporate Source Code #B290491 NASA Langley
@pop Washington NOTE: Washington, D.C. is cited only as Washington
Related fields:
@pub - Publisher
@spb - Special Publication Note

ELEMENT: Publisher ∂pub

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies the publisher responsible for issuing the report.

CONTEXT: The publisher is cited in abbreviated form utilizing the accepted list of abbreviations for corporate sources. widely accepted acronyms are acceptable.
            Example: ∂pub. AFCRL

INTERNAL TAG: ∂pub

DESC: N/A

EXTERNAL TAG: 158

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: A publisher is not cited if the phrase 'prepared for' is present.
            Related fields:
            ∂pop - Place of Publication

ELEMENT: Reprint Note-Drpr

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates whether the report is a reprint.

CONTENT: The note begins with the phrase "Repr. from" succeeded by the following data: the title of the publication from which
the reprint was made; the country or city of origin enclosed in parentheses; the volume and number of the publication
from which the reprint was made; the publication date of the original report; and the page range (if consecutively
numbered) or the sum total number of pages (if not consecutively numbered) of the original report. See examples for
spacing rules.
    Example: Drpr Repr. from Tr. Akad. Nauk SSSR (Moscow), v.11, no.4, 1 Jun. 1979 p 11-15
             Drpr Repr. from Sci. Am., v. 22, no. 2, 1969 6 p

INTERNAL TAG: Drpr

DESC: N/A

EXTERNAL TAG: 160

DESC: N/A

CHARACTER SET: Alphanumeric

DATE SOURCE: Document   Staff

NOTES: No country or city is cited on reprints of US origin. Chemical Abstracts is used as the authority for abbreviations.
    Related fields:
    Block 17 - Country of Publication
    Block 28 - Document Class

PAGE NUMBER 0263

ELEMENT: Translation Note-@tra

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates a report translated into English from a foreign language.

CONTENT: The note begins with the phrase "Transl. into ENGLISH of/from" succeeded by the following data (if available): Source title (periodical, book, or journal); city or country of origin publisher (if book or monograph); volume and number; page range (if consecutively numbered); or sum total of original pages (if not consecutively numbered). For spacing rules see examples.
   Example: @tra Transl. into ENGLISH from Byul. Eksperim. Biol. i Med. (Moscow), v. 2, no. 4, 1980, p 73-74
            @tra Transl. into ENGLISH of the book "Teoreticheskiye Osnovy Elektrotekhniki v freka Tomakh" Moscow,
   Energiya Press, v. 3, 1979 p. 1-22

INTERNAL TAG: @tra

DESC: N/A

EXTERNAL TAG: 163

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: *Use the word 'of' if the translation is a complete translation of the original language report; use the word 'from' if the translation is a partial translation of the original language report.
   e city or country of origin is usually enclosed in parentheses; not cited if US origin.
   +Abbreviated according to Chemical Abstracts. Exception: a translated book is not abbreviated and is enclosed in quotation marks.
   Related fields:
   Block 17 - Country of Origin

ELEMENT: Language Note-algn

SOURCE AGENCY: NASA

USE: Mandatory

DEPN: Elaborates on a language code of AA.

CONTENT: There are three possible choices: (1) the entire text is in two languages; (2) the text is in a foreign language with
an English summary; (3) the text is partly in several languages. Languages are cited in all uppercase.
Example: (1) algn In GERMAN and ENGLISH
(2) algn In FRENCH; ENGLISH summary
(3) algn Partly in FRENCH, GERMAN, and DUTCH

INTERNAL TAG: algn

DESC: N/A

EXTERNAL TAG: 172

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
Block 16 - Document Language
Block 18 - Translated Document

ELEMENT: Presentation Note-@prs

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates that the report has been or will be presented at a conference, symposium, meeting, or other gathering.

CONTENT: The presentation note begins with one of two phrases: 'Presented at the' or 'Proposed for presentation at the'. The note is succeeded by the following data (in the order listed): abbreviated name of conference, place conference was held and date conference was held. If the title of the report contains the conference name, then only the place and date are cited. If the conference was sponsored by other than the financial support or corporate Source of the report, the sponsorship of the proceeding is indicated by the phrase 'sponsored by' after the conference note, separated by a semicolon and one space. See examples for spacing rules.
Example: @prs Presented at the AIAA Ann. Space Sci. Symp., Washington, D.C., 4-8 Jan. 1961; sponsored by NASA.
@prs Proposed for presentation at the 30th Reuniao Anual da Soc. Brasil. Para o Progr. da Cienc., Sao Paulo, J. 1983.

INTERNAL TAG: @prs

DESC: N/A

EXTERNAL TAG: 178

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: If the date of the presentation is within 14 days of the cataloging date, the conference note should read 'Presented at'. Chemical Abstracts is used as the abbreviation guide, and Appendix 4-35 of the Cataloging Manual is used to determine those cities that can be given without further designation of state or country.
Related fields:
@prs - Primary Note

ELEMENT: Special Publication Notes-Sapb

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies information pertinent to the publication of a report.

CONTENT: The following information may be incuded: (1) report has been submitted for publication; (2) the sponsoring agency;
        (3) preparation of the report; (4) report is one of a series of related but separate works; and (5) translation agency.
        Example: Sspb Submitted for publication (1)
                  Sspb Sponsored by AFSC (2)
                  Sspb Prepared for JPL, Pasadena, Calif. (3)
                  Sspb Prepared in cooperation with Martin Marietta Corp., Orlando (3)
                  Sspb Its Nota Interna No. 24 (4)
                  Sspb Transl. by Kanner (Leo) Associates, Redwood City, Calif., original doc. prep. by Brown Boveri and Cie
        A.G., Mannheim, West Germany (5).

INTERNAL TAG: Sspb

DESC: N/A

EXTERNAL TAG: 170

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Multiple notes are separated by two spaces. Each note is initial capitalized. Chemical Abstracts is used as the
        authority for abbreviation. A recognized acronym may be used, otherwise refer to the list of corporate source
        abbreviations. (2)
        Related fields:
        Sssc - Secondary Source Code
        Spop - Place of Publication
        Strm - Translation Note
        Block 18 - Translated Document
        Block 30 - Document Class

ELEMENT: Other Announcements-Bota

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates if a report has been previously announced, is a supplement to another report, is revised, or superseded another report.

CONTENT: For a report reannounced under a different accession number or series designation, the report numbers of the previously announced report are repeated in the Report Number field and in the Other Announcement Note. If an accession number is available it is recorded in the Note but not repeated in the Report Number field. If a document has been revised, the word "Revised" is cited. If a report supersedes another report, the report numbers of the superseded report are cited. This field is also used to cite cross references for translated reports. A translation may be cross referenced to the original language report, another version of the translation previously announced, or a translation in process.

Example: Bota   Revised
            Bota   Original language document announced as A80-21910
            Bota   Supersedes NTIS/AS-78/0700/3
            Bota   Supplement to D2-10092; See N72-10065
            Bota   Previously announced as NASA-CR-12345; N72-12345

INTERNAL TAG: Bota

DESC: N/A

EXTERNAL TAG: 162

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: N/A

PAGE NUMBER 0268

ELEMENT: Supplement Note-Bsup

SOURCE AGENCY: NASA

USE: If Available

DEFN: Describes a supplement accompanying a report: what form it is in, and where it can be obtained if not included with the report.

CONTENT: ésup Film Supplement Number A-123 to this report is available on loan from NASA Langley Research Center
        ésup Document includes a Microfiche supplement
        ésup Document includes a Microfiche supplement. This supplement is available in microfiche on request from the NASA
        Scientific and Technical Information Facility

INTERNAL TAG: Bsup

DESC: N/A

EXTERNAL TAG: 173

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Miscellaneous Note-Onca

SOURCE AGENCY: NASA

USE: If Available

DEFN: Contains any descriptive notes which are applicable and are not cited in any other field.

CONTENT: The Miscellaneous Note field contains information such as the presence of color illustration, availability of original imagery, multiple journal issues, etc.
Example: Ouca. Original contains color illustrations.
Ouca Original contains color imagery. Original photography may be purchased from EROS Data Center, Sioux Falls, S.D., ERTS
Ouca This accession number also covers all 1980 issues received to date

INTERNAL TAG: Ouca

DESC: N/A

EXTERNAL TAG: 177

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: N/A

ELEMENT: Number of Volumes in Set-#vol

SOURCE AGENCY: NASA

USE: If Available

DEFN: Indicates the number of volumes in a set.

CONTENT: The number of volumes in a complete set is entered only if the report states that it is part of a set. If two volumes are present, but neither indicates how many are in the complete set, the note is not used. However, the number may be cited if a set is not cataloged together, as long as the total number of volumes is given.
Example: #vol 5

INTERNAL TAG: #vol

DESC: N/A

EXTERNAL TAG: 164

DESC: N/A

CHARACTER SET: Binary (two bytes)

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Supporting Research and Technology Code-asrt

SOURCE AGENCY: NASA

USE: If Available

DEFN: Designates the project, subprogram, task, or work unit under which specific work was performed. It is found in the NASA Formal Series reports.

CONTENT: The alphanumeric code is entered as it appears on the report. There is no set number of characters required for an SRT code.
Example: asrt 160-75-01
sart 180-1

INTERNAL TAG: asrt

DESC: N/A

EXTERNAL TAG: 180

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: Related fields:
Block 17 - Country of Finance
Block 29 - Financial Support

ELEMENT: Corporate Source Monitor-Scms

SOURCE AGENCY: NASA

USE: If Available

DEFN: Identifies a government or other agency which is financially responsible for the report and controls its distribution.

CONTENT: An eight character alphanumeric code taken from the Corporate Source Authority List is entered.
Example: Scms A3113523

INTERNAL TAG: Scms

DESC: N/A

EXTERNAL TAG: 156

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Standard

NOTES: The monitor is identified in the notes and contents area of the ATS 901 form for verification.
Example: AFWL, Sam.
Related fields:
Block 17 - Country of Finance
Block 39 - Financial Support

ELEMENT: Sales Agency and Pricing-Smap

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identifies the NTIS price of a report, or any other special price. The note is required on STAR series reports; on /N series reports, only certain special availabilities are cited.

CONTENT: If the report is available from NTIS, the price is given according to the NTIS page count codes. If the report is available from another source as well as NTIS, both availabilities are given, separated by a semicolon. A copyrighted report which gives no specific availability cites 'Issuing Activity' as the pricing. If a report gives a specific availability and is not available from NTIS, the availability is given as it appears on the report.

    Example: Smap NC A06/MF A01
                    Smap Avail: Issuing Activity
                    Smap MF A01; NC SOD $10.50

INTERNAL TAG: Smap

DESC: N/A

EXTERNAL TAG: 191

DESC: N/A

CHARACTER SIZE: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
    Block 26 - Microfiche Availability
    Block 27 - Hardcopy Availability
    Block 37 - NTIS Availability

ELEMENT: Subject Groups-dcac

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Indicates the overall subject content of a report. Subject groups consist of a COSATI code (numeric/alpha) used by NTIS and Field Groups (numeric/numeric) used by DTIC. There is a direct correlation between COSATI codes and Field Groups. The COSATI codes and Field Groups also relate directly to the seventy-five NASA subject categories.

CONTENT: The COSATI code consists of 22 major divisions with 178 subdivisions. COSATI codes are expressed as 01A. Corresponding Field Groups are expressed as 01/1. COSATI codes are preassigned on microfiche prepared by NTIS and Field Groups are preassigned on microfiche prepared by DTIC. The COSATI code (numeric/alpha) which identifies the content of a NASA formal report is entered on the ATS 901 form for all NASA formal reports announced in STAR. The preassigned COSATI code is entered on the ATS 901 form for all NTIS material and the Field Group is entered on the ATS 901 form for all DTIC material.
Example: dcac 01A.

INTERNAL TAG: dcac

DESC: N/A

EXTERNAL TAG: 200

DESC: N/A

CHARACTER SET: Numeric/alpha or Numeric/numeric designators

DATA SOURCE: Document   Staff

NOTES: Only NASA formal, NTIS microfiche, and DTIC microfiche and reports are additionally identified by a COSATI code or Field Group designator.
Related fields:
Block 40 - NASA Subject Category
Block 43 - Subsidiary Subject Category

PAGE NUMBER 0275

ELEMENT: Title Extension-Text

SOURCE AGENCY: NASA

USE: Optional

DEFN: Annotates/adds to an otherwise nondescriptive, vague, misleading, or inadequate title. It consists of pertinent information that adds to the title in context to describe the subject matter presented.

CONTENT: The first character is alphanumeric and lowercase unless it is a proper name, as acronym, chemical symbol, etc. The GPO Style Manual and the NASA-SP-7 are used as the authority for capitalization, abbreviation, numeration, punctuation, and hyphenation. Verbalization guidelines are followed for symbols, Greek letters, subscripts, superscripts, exponents, mathematical formulas, nuclear physics reactions, and chemical terminology. Length is variable. It is not in sentence form.
Example: Øtl Acoustic impedance of curved multilayered duct liners
Øtxt for aircraft noise reduction

INTERNAL TAG: Øtxt

DESC: N/A

EXTERNAL TAG: 149

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
Øtl - Unclassified Title

ELEMENT: Major Subject Terms-Dajs

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identify the important ideas and concepts in the report literature. They comprise the printed index in STAR and in the special bibliographies and are used for machine retrieval.

CONTENT: Postable index terms are selected from the NASA Thesaurus, a controlled vocabulary. Each term is separated by the sign with no spaces between; each term is variable in length not to exceed 42 characters. The field is comprised of multiple elements.
Example: Dajs BIBLIOGRAPHIES&EXOBIOLOGY&AEROSPACE MEDICINE& BIOLOGICAL EFFECTS

INTERNAL TAG: Dajs

DESC: N/A

EXTERNAL TAG: 197

DESC: N/A

CHARACTER SET: Alphanumeric/up to 42 characters/elements

DATA SOURCE: Staff   Standard

NOTES: Related fields:
        Dans - Minor Subject Terms

ELEMENT: Minor Subject Terms-Mns

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Identify the important ideas and concepts in the report literature. They are used for machine retrieval.

CONTENT: Postable index terms are selected from the NASA Thesaurus, a controlled vocabulary. Each term is separated by the ∅ sign with no space between; each term is variable in length not to exceed 42 characters. The field is comprised of multiple elements.
Example: ∅mns MANNED SPACE FLIGHT∅PSYCHOLOGICAL EFFECTS∅ PHYSIOLOGICAL EFFECTS∅AEROSPACE ENVIRONMENTS

INTERNAL TAG: ∅mns

DESC: N/A

EXTERNAL TAG: 198

DESC: N/A

CHARACTER SET: Alphanumeric/up to 42 characters/elements

DATA SOURCE: Staff   Standard

NOTES: Related fields:
∅mjs - Major Subject Terms

ELEMENT: Analytic Note-aann.

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Summarizes the mother (primary) of analytic reports. It is used in lieu of an abstract. It is meant to introduce the user to the theme, scope, etc. of the analytic.

CONTENT: The first character is alpha and uppercase. The GPO Style Manual and the NASA-SP-7 are used as the authority for capitalization, abbreviation, numeration, punctuation, and hyphenation. Verbalization guidelines are followed for symbols, Greek letters, subscripts, superscripts, exponents, mathematical formulas, nuclear physics reactions, and chemical terminology. Length is variable up to 150 words or 15 10-word lines.
Example: aann The safety of the human in manned space flight is addressed. Physiological effects of the spacecraft environment, radiation, and weightlessness on human biological processes are considered.

INTERNAL TAG: aann.

DESC: N/A.

EXTERNAL TAG: 239 .

DESC: N/A

CHARACTER SET: Alphanumeric/up to 15 lines

DATA SOURCE: Document   Staff

NOTES: Related fields:
      Block 38 - Abstract Preparation
      Block 39 - Abstract Qualification

ELEMENT: Abstract-Babs

SOURCE AGENCY: NASA

USE: Mandatory

DEFN: Summarizes the salient features of the report, concentrating on what was done, why it was done, how it was done, and what significant results were obtained. May include relationship of the research to the space program and potential technology transfer or application.

CONTENT: The first character is alpha and uppercase. The GPO Style Manual and the NASA-SP-7 are used as the authority for capitalization, abbreviation, numeration, punctuation, and hyphenation. Verbalization guidelines are followed for symbols, Greek letters, subscripts, superscripts, exponents, mathematical formulas, nuclear physics reactions, and chemical terminology. Length is variable up to 150 words or 15 10-word lines.
Example: Babs The implementation on the STOLAND airborne digital computer of an optimum profile guidance system for the augmentor wind jet STOL research aircraft is described. Major tasks were to implement the guidance and control logic to airborne computer software and to integrate the module with the existing STOLAND navigation, display, and autopilot routines. The optimum profile guidance system comprises an algorithm for synthesizing minimum fuel trajectories for a wide range of starting positions in the terminal area and a control law for flying the aircraft automatically along the trajectory. The avionics software developed is described along with a FORTRAN program that was constructed to reflect the modular nature and algorithms implemented in the avionics software.
Babs J.R.S.

INTERNAL TAG: Babs

DESC: N/A

EXTERNAL TAG: 249

DESC: N/A

CHARACTER SET: Alphanumeric/up to 15 lines.

DATA SOURCE: Staff   Document.

NOTES: Related fields:
Block 38 - Abstract Preparation
Block 39 - Abstract Qualification

ELEMENT: Abstract Author-@aba

SOURCE AGENCY: NASA

USE: Optional

DEFN: Identifies the source of the abstract.

CONTENT: The @aba mnemonic precedes the abstract credit line. The mnemonic starts a new line and is entered on the left hand
margin following the abstract.
Example: @aba J.M.S.
          @aba Author
          @aba Author (GRA)
          @aba GRA
          @aba DOE
          @aba Transl. by J.M.S.
          @aba Dissert. Abstr.
          @aba gSDU (GRA)
          @aba NASA
          aba Official Gazette of the U.S. Patent and Trademark Office

INTERNAL TAG: @aba

DESC: E/A

EXTERNAL TAG: 240

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: Related fields:
       Block 38 - Abstract Preparation
       Block 39 - Abstract Qualification

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COOPERATIVE DATA ELEMENT DICTIONARY - NASA INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
Primary Note-Dpra	NASA	0259
Publication Date-Block 02	NASA	0202
Publisher-Dpub	NASA	0203
Receipt Date-Block 13	NASA	0214
Receipt Type-Block 08	NASA	0207
References-Block 41	NASA	0243
Report Class (A)-Block 21	NASA	0220
Report Class (B)-Block 21	NASA	0221
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Reprint Note-Drpr	NASA	0262
Reproduction Authorized (Y or N)-Block 20	NASA	0219
Sales Agency and Pricing-Dsap	NASA	0273
Secondary Source Code-Dssc	NASA	0254
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Subject Fields-Block 40	NASA	0242
Subject Groups-Dcsc	NASA	0274
Supplement Note-Dsup	NASA	0268
Supporting Research and Technology Code-Dsrt	NASA	0271
Temporary Number-Block 01	NASA	0201
Title (Unclassified)-Dutl	NASA	0251
Title Extension-Dtxt	NASA	0275
Title Security Classification-Block 34	NASA	0235
Title Supplementary-Dtls	NASA	0255
Translated Document-Block 18	NASA	0217
Translation Note-Dtra	NASA	0263
Unclassified Foreign Title-Duft	NASA	0256

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INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
∂aba	Abstract Author-∂aba	NASA	0260
∂abp	Abstract Preparation-Block 39	NASA	0240
∂abs	Abstract-∂abs	NASA	0279
∂acl	Access Level-NASA-Block 30	NASA	0231
∂acl	Access Level-Other Government-Block 31	NASA	0232
∂acl	Access Level-Non-Government-Block 32	NASA	0233
∂ali	Incomplete List of Authors-Block 15	NASA	0212
∂ann	Analytic Note-∂ann	NASA	0276
∂asp	Analytic Primary-Block 44/Number-Block 42	NASA	0245
∂ars	Analytic Subsidiary Subject Code-Block 43	NASA	0246
∂ass	Analytic Subsidiary-Block 44/Number-Block 42	NASA	0246
∂aut	Author-∂aut	NASA	0250
∂bbr	References-Block 41	NASA	0243
∂cat	Subject Fields-Block 40	NASA	0242
∂cfs	Country of Finance-Block 17	NASA	0214
∂cnt	Contract/Grant Number-∂cnt	NASA	0249
∂cor	Country of Origin-Block 17	NASA	0215
∂cpb	Country of Publication-Block 17	NASA	0216
∂crt	Copyrighted (Y or N)-Block 19	NASA	0218
∂csc	Subject Groups-∂csc	NASA	0274
∂csm	Corporate Source Monitor-∂csm	NASA	0272
∂css	Corporate Source Supplement-∂css	NASA	0253
∂dcf	Distribution Control and Analysis File (DCAF)-Block 45	NASA	0247
∂dcl	Document Class-Block 20	NASA	0229
∂ddg	Downgrading - Declassification Group-Block 35	NASA	0236
∂dsc	Document Security Classification-Block 33	NASA	0234
∂foi	Form of Original Input-∂foi	NASA	0252
∂fst	Financial Support-Block 29	NASA	0230
∂hur	Hardcopy Availability Code-Block 27	NASA	0228
∂ilc	Incomplete List of Contracts-Block 10	NASA	0209
∂iss	Issue Number-Block 07	NASA	0206
∂lga	Document Language-Block 16	NASA	0213
∂lgn	Language Note-∂lgn	NASA	0264
∂mcn	Miscellaneous Note-∂mcn	NASA	0269
∂sjs	Major Subject Terms-∂sjs	NASA	0276
∂sns	Minor Subject Terms-∂sns	NASA	0277
∂mur	Microfiche Availability Code-Block 26	NASA	0227
∂ota	Other Announcements-∂ota	NASA	0267
∂paa	Personal Author Affiliation-∂paa	NASA	0258
∂pag	Pagination (Page Count)-Block 14	NASA	0211
∂pat	Personal Author Type-∂pat	NASA	0257
∂pdt	Publication Date-Block 02	NASA	0202
∂pop	Place of Publication-∂pop	NASA	0260
∂prn	Primary Note-∂prn	NASA	0259
∂prs	Presentation Note-∂prs	NASA	0265
∂pub	Publisher-∂pub	NASA	0261
∂rcd	Receipt Date-Block 13	NASA	0210
∂rcl	Report Class (A)-Block 21	NASA	0220
∂rct	Receipt Type-Block 08	NASA	0207
∂rpn	Report Number(s)-∂rpn	NASA	0248
∂rpr	Reprint Note-∂rpr	NASA	0262
∂san	Special Handling-Block 36	NASA	0237
∂sap	Sales Agency and Pricing-∂sap	NASA	0273

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∂sch	NTIS Hardcopy Available-Block 37	NASA	0238
∂sca	NTIS Microfiche Available-Block 37	NASA	0239
∂spb	Special Publication Notes-∂spb	NASA	0266
∂src	Corporate Source-Block 03	NASA	0203
∂srt	Supporting Research and Technology Code-∂srt	NASA	0271
∂ssc	Secondary Source Code-∂ssc	NASA	0254
∂sup	Supplement Note-∂sup	NASA	0266
∂tls	Title Supplementary-∂tls	NASA	0255
∂tpr	Report Class (B)-Block 21	NASA	0221
∂tra	Translation Note-∂tra	NASA	0203
∂trn	Translated Document-Block 18	NASA	0217
∂tsc	Title Security Classification-Block 34	NASA	0235
∂txt	Title Extension-∂txt	NASA	0275
∂uft	Unclassified Foreign Title-∂uft	NASA	0256
∂utl	Title (Unclassified)-∂utl	NASA	0257
∂vol	Number of Volumes in Set-∂vol	NASA	0270
N/A	Abstract Qualification-Block 39	NASA	0241
N/A	Temporary Number-Block 01	NASA	0201
N/A	Document Release Form-Block 04	NASA	0204
N/A	File ID-Block 06	NASA	0205
N/A	NASA Formal Series-Block 09	NASA	0208
N/A	Reproduction Authorized (Y or N)-Block 20	NASA	0239
N/A	Microfiche Reproduction Authorization-Block 22	NASA	0222
N/A	Copyright Override-Block 22	NASA	0223
N/A	Microfiche Code Prefix-Block 23	NASA	0224
N/A	Microfiche Code Suffix-Block 24	NASA	0225
N/A	Microfiche Source Origin-Block 25	NASA	0226

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N/A	Abstract Qualification-Block 39	NASA	0241
N/A	Temporary Number-Block 01	NASA	0201
N/A	Document Release Form-Block 04	NASA	0204
N/A	File ID-Block 06	NASA	0205
N/A	NASA Formal Series-Block 09	NASA	0208
N/A	Reproduction Authorized (Y or N)-Block 20	NASA	0219
N/A	Microfiche Reproduction Authorization-Block 22	NASA	0222
N/A	Copyright Override-Block 22	NASA	0223
N/A	Microfiche Code Prefix-Block 23	NASA	0224
N/A	Microfiche Code Suffix-Block 24	NASA	0225
N/A	Microfiche Source Origin-Block 25	NASA	0226
023	Analytic Subsidiary Subject Code-Block 43	NASA	0244
023	Analytic Subsidiary-Block 44/Number-Block 42	NASA	0246
029	Analytic Primary-Block 45/Number-Block 42	NASA	0245
074	Financial Support-Block 29	NASA	0230
076	Hardcopy Availability Code-Block 27	NASA	0228
077	Microfiche Availability Code-Block 26	NASA	0227
078	Title Security Classification-Block 34	NASA	0235
084	Document Class-Block 28	NASA	0229
086	Report Class (A)-Block 21	NASA	0220
087	Translated Document-Block 18	NASA	0217
088	Copyrighted (Y or N)-Block 19	NASA	0218
089	Incomplete List of Authors-Block 15	NASA	0212
090	NTIS Hardcopy Available-Block 37	NASA	0238
091	NTIS Microfiche Available-Block 37	NASA	0239
092	Incomplete List of Contracts-Block 10	NASA	0209
093	Report Class (B)-Block 21	NASA	0221
095	Publication Date-Block 02	NASA	0202
098	Pagination (Page Count)-Block 14	NASA	0211
099	Document Language-Block 16	NASA	0213
101	Document Security Classification-Block 33	NASA	0234
106	Access Level-NASA-Block 30	NASA	0231
115	Issue Number-Block 07	NASA	0206
116	Subject Fields-Block 40	NASA	0242
117	Country of Finance-Block 17	NASA	0214
118	Country of Publication-Block 17	NASA	0216
119	Country of Origin-Block 17	NASA	0215
120	Downgrading - Declassification Group-Block 35	NASA	0236
121	Special Handling-Block 36	NASA	0237
130	Receipt Type-Block 08	NASA	0207
130	Access Level-Other Government-Block 31	NASA	0232
130	Access Level-Non-Government-Block 32	NASA	0233
131	Abstract Preparation-Block 38	NASA	0240
142	Secondary Source Code-Bsec	NASA	0254
142	Corporate Source-Block 03	NASA	0203
143	Corporate Source Supplement-Bcss	NASA	0253
145	Title (Unclassified)-Butl	NASA	0251
147	Unclassified Foreign Title-Buft	NASA	0256
148	Title Supplementary-Btls	NASA	0255
149	Title Extension-Btxt	NASA	0275
150	Author-Baut	NASA	0250
153	Personal Author Type-Bpat	NASA	0257
155	Personal Author Affiliation-Bpaa	NASA	0258

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156	Corporate Source Monitor-Scms	NASA	0272
157	Place of Publication-Opop	NASA	0260
158	Publisher-Spab	NASA	0261
159	Primary Note-Nprt	NASA	0259
160	Reprint Note-Srpr	NASA	0262
161	Translation Note-Strn	NASA	0263
162	Other Announcements-Sota	NASA	0267
163	References-Block 41	NASA	0243
164	Number of Volumes in Set-Svol	NASA	0270
170	Special Publication Notes-Snph	NASA	0266
172	Language Note-Slgn	NASA	0264
173	Supplement Note-Dsmp	NASA	0266
174	Presentation Note-Sprs	NASA	0265
177	Miscellaneous Note-Dmcn	NASA	0269
179	Contract/Grant Number-Scnt	NASA	0249
184	Supporting Research and Technology Code-Nart	NASA	0271
185	Report Number(s)-Srpn	NASA	0240
191	Sales Agency and Pricing-Dsmp	NASA	0273
197	Major Subject Terms-Dsjs	NASA	0276
198	Minor Subject Terms-Dsms	NASA	0277
200	Subject Groups-Dcnc	NASA	0274
202	Distribution Control and Analysis File (DCAF)-Block 85	NASA	0247
239	Analytic Note-Dann	NASA	0278
240	Abstract Author-Dahn	NASA	0280
241	Form of Original Input-Dfoi	NASA	0252
245	Receipt Date-Block 13	NASA	0210
249	Abstract-Dabs	NASA	0279

ELEMENT: Accession Number

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: A unique document number which is used to order the document from
NTIS. Either NTIS assigns this number or the original report number
assigned by the document submitting organization is used.

CONTENT: A variable length field (50 character maximum) containing one
alphanumeric entry. The entry always has an alpha prefix (indicating
the document's source agency) before the sequence number assigned to the
document. An entry may include a check digit which consists of an
additional slash at the end of the number followed by as many as four
alphanumeric characters.

INTERNAL TAG: 01

DESC: N/A

INTERNAL TAG: 001

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Document

NOTES: (1) This data element is referred to as the "Document Number" on the NTIS sales tape. (2) The check digit
allows the NTIS order processing system to verify that customers have not miswritten any of
the digits in the accession number. (3) Alpha prefixes represent specific input agencies;
those most used are: AD=Dept. of Defense (DOD); ED=Educational Resources Information Center (ERIC);
FIPS=NBS Federal Information Processing Standards; NHP=National Health Planning Information Center; ITA=Dept.
of Commerce-International Trade Administration; N=NASA; NUREG=Nuclear
Regulatory Commission; PB=Reports indexed, cataloged, and abstracted by NTIS for other agencies;
PAT/PAT-APPL=U.S. Government owned patents/applications; SHR=Dept. of Health and Human Service-Project Share;
and TT=Translations from the Special Foreign Currency Science Information Program.

ELEMENT: NTIS Subject Category Codes

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: Codes which classify document content by subject fields. Each document is normally assigned from 1 to 3 codes from the COSATI Subject Classification Scheme and from 0 to 4 codes from the NTIS Subject Classification Scheme.

CONTENT: A variable length field (100 character maximum) containing alphanumeric codes with 3 or 4 characters each. Each 3 character code is composed of two numerics representing a broad subject category, one alpha designating a sub-category within the broad subject category; the four character code is essentially a 3 character code followed by an asterick for highlighting purposes. The field begins with the prefix "FLD" and multiple entries are separated by comma-space character pairs. COSATI codes range from 01-22 and NTIS codes range from 43-99.

INTERNAL TAG: 02

DESC: N/A

EXTERNAL TAG: 350

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: (1) This data element is referred to as the "Subject Category Fields" on the NTIS sales tape. (2) The COSATI Subject Classification scheme is two-level in construction, consisting of 22 major subject fields (categories) with a further subdivision in 178 group (subcategories). It has been used since 1964 to arrange reports in the GOVERNMENT REPORTS ANNOUNCEMENTS AND INDEX. (3) The NTIS Subject Classification scheme was developed in 1970 to be used in conjunction with COSATI. It provides useful sorting categories for both hard and soft sciences in the NTIS Abstract Newsletters and the SELECTED RESEARCH IN MICROFICHE (SRIM) products. The scheme was expanded several times and currently contains 39 major categories which are further subdivided in 319 subcategories. (4) When NTIS highlights a document because of its potential "higher than average interest", an asterisk will appear as the fourth character of the subject code.

ELEMENT: NTIS In-House Control Codes

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: A series of codes used to control various features of document processing and
announcement by NTIS publications programs. These codes represent such data items
as foreign languages, countries of intellectual origin, and special data base
retrieval indicators used in connection with retrospective on-line searches.

CONTENT: A variable length field (150 character maximum) beginning with "U" and follwed by a
series of alphanumeric and alphabetic codes. The field always ends with one or two
alphabetic codes usually containing from 6-10 characters which always starts with
"NTIS".

INTERNAL TAG: 03

DESC: N/A

EXTERNAL TAG: 800

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Document

NOTES: (1) This field always contains the constant "(U)" on the NTIS Sales Tape. (2) Some of
the NTIS In-House Control Codes are frequently added or changed and are not supported for non-NTIS
use. (3) The data base retrieval code(s) located at the end of Field 3 are added to the
end of Field 25 (Identifiers) on the NTIS Sales Tape by the computer.

ELEMENT: NTIS Prices

SOURCE AGENCY: NTIS

USE: If available

DEFN: A code representing a monetary value that NTIS charges its customers for documents (on paper copy and microfiche) and computer products (on magnetic tape) in the NTIS collection. If the item is a reprint or is not available for sale through NTIS, an appropriate message will appear in this field in lieu of a price code.

CONTENT: A variable length field (120 character maximum) beginning with the prefix "NTIS Prices" and followed by 3-character codes or a text message. Each 3-character code consists of one alpha (A,E,N, or T) indicating various price schedules and products, two numerics indicating price code ranges. For documents, there will be two codes separated by a colon-space; the first code is preceded by the alphas "PC" meaning the paper copy price and the second code preceded by the alphas "MF" meaning the microform price. Magnetic tapes receive one code that is preceded by the alphas "CP" meaning the computer products price. The most common text message messages that appear in this field are the alphas "Not available NTIS" and "Reprints".

INTERNAL TAG: 04

DESC: N/A

EXTERNAL TAG: 530

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: The following list provides definitions for the first alpha in a 3-character price code: A= Standard Priced Documents and Microfiche; E= Exception Priced Documents and Microfiche; N= Exception Priced Documents and Microfiche (i.e. Published Searches); T= Computer Products Software and Data Files. (2) Paper copy prices charged by NTIS are usually based on the number of pages in a report; microfiche prices are usually a set amount no matter how many pages are contained in the document (3) For a current p price code conversion table, North American customers should refer to NTIS-PR-360-3; all other customers should refer to NTIS-PR-360-4.

ELEMENT: Corporate Source

SOURCE AGENCY: NTIS

USE: If available

DEFN: The name of the organization(s) that performed the research and prepared the document (performing organization(s)). In addition, the name of the organization(s) that sponsors the research sponsoring organization(s) if different from the performing organization(s).

CONTENT: A variable length field (800 character maximum) containing alphanumeric entries of organization names in all caps. The field begins with the primary performing organization followed by secondary performing organizations (each preceded with double asterisks) and the secondary sponsoring organizations (also preceded by a single asterisk). There are no duplicate entries in this field.

INTERNAL TAG: 05

DESC: N/A

EXTERNAL TAG: 300

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: (1) The majority of documents have only the primary performing organization identified. (2) For rules governing how corporate sources are established, see COSATI CORPORATE AUTHOR HEADINGS and GUIDELINES FOR DESCRIPTIVE CATALOGING OF REPORTS which are both available from NTIS. (3) Corporate sources serve as major index points. However, secondary sponsoring agencies are not listed in NTIS printed indexes.

ELEMENT: Title

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: The official name of the work as it appears on the title page of the document. It includes the subtitle and alternative title when cited; it generally excludes an overall project or report series name and descriptive notation such as the type of report.

CONTENT: A variable length field (600 character maximum) containing a narrative of alphanumerics in initial caps and lower case. For foreign language reports, the foreign title usually appears first with the English title in parenthesis.

INTERNAL TAG: 06

DESC: N/A

EXTERNAL TAG: 220

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: (1) This data element is referred to as the "Title of Report" on the NTIS Sales Tape. (2) For phrases which indicate the type of report or serialization of a set of reports, see the "Title Note" (Field 9). (3) For an overall project or report series name, see the "Supplementary Notes" (Field 21). (4) Except for NASA reports, this data element is replaced by the "Title Annotation" (Field 30) for NTIS produced indexes.

ELEMENT: Item Description (Set)

SOURCE AGENCY: NTIS

USE: Required

DEFN: A description of an individual document belonging to a set of documents that are announced
by NTIS in a "compressed entry" format. This description includes the specific report number,
title, date, price (if variable from volume to volume), and pagination.

CONTENT: A variable length field (180 character maximum) that normally is blank. When used, the field
will contain the following types of alphanumeric data and punctuation in the order as shown:
Report Number (Field 14) followed by a period; Partial title (Field 6) followed by a period;
Volume Number, if any, followed by a comma; Report Date (Field 11) followed by a comma;
Pagination (Field 12) followed by a space; Paper copy and microfiche price codes (Field 4) separated
by a comma; and superceded report number, if any.

INTERNAL TAG: 07

DESC: N/A

EXTERNAL TAG: 240

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This data element field is always blank on the NTIS Sales Tape and is referred to as
"Blank (Classified Title)". (2) A complete bibliographic record for each document in a set or
series is entered into the NTIS data base; however, the "compressed entry" format minimizes
the amount of repetitive announcement information printed in NTIS publications. For compressed
entries, the Item Description (Set) is used in conjunction with the Primary Description (Set)
located in Field 13 and appears below the abstract applicable to an entire set of documents.

ELEMENT: Journal Volume and Issue Codes

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: An alphanumeric designation of the journal and its volume and issue numbers for a document's original announcement.

CONTENT: A variable length field (20 character maximum) containing one, two, or three 5 character alphanumeric code each precede by a "reverse slash". A code is composed of one alpha (D,S,T, or U) designating the Journal, two numerics indicating the journal volume number, and two numerics designating the journal issue number. This field is spaced filled to 20 characters.

INTERNAL TAG: 08

DESC: N/A

EXTERNAL TAG: 160

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine

NOTES: (1) This data element is referred to as the "Journal Announcement Code" on the NTIS sales tape. (2) Definitions to the letters currently used in prefixing journal volumes and issues are as follows: D=used to distinguish reports entered into the NTIS data base and not announced in GOVERNMENT REPORTS ANNOUNCEMENT AND INDEX (GRAI) or Abstract Newsletters: S=used to identify NASA reports announced in the journal, SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS (STAR): T=used to identify a small number of reports from DOD announced by NTIS and previously announced in the journal TAB; U=used to identify reports announced in GOVERNMENT REPORTS ANNOUNCEMENTS AND INDEX (GRAI).

ELEMENT: Title Note

SOURCE AGENCY: NTIS

USE: If available

DEFN: A description of the document type such as a final report, annual
report, a patent or thesis. Report coverage dates, report numbers
and subtitles for certain documents may be listed.

CONTENT: A variable length field (600 character maximum) containing a
narrative of alphanumerics.

INTERNAL TAG: 09

DESC: N/A

EXTERNAL TAG: 540

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: (1) This data element is referred to as the "Descriptive Note" on the
NTIS sales tape.

ELEMENT: Personal Author(s).

SOURCE AGENCY: NTIS

USE: If available

DEFN: The name(s) of a person who is credited with the preparation, writing, or composition of the document.

CONTENT: The field is divided into five subfields, each with a 50 character maximum limit. A subfield is composed of the first name and/or initials followed by a "reverse slash" (To delimit the last name), the last name, and any suffix such as Jr., Sr., It, etc. The first author's name is always prefixed with "by". For multiple authors, each author's name is followed by "," except the next to last author which ends with", and" and the last author which ends with ".". When only the last name of an author(s) is available, it appears in the last subfield(s) that is used. A null entry is represented by "/" followed by a "reverse slash".

INTERNAL TAG: 10

DESC: The five subfield tag codes and their definitions are as follows: 10=Personal Author 1; 10A= Personal Author 2; 10B=Personal Author 3; 10C=Personal Author 4; 10D=Personal Author 5.

EXTERNAL TAG: 280

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: (1) Two document submitting agencies, NASA and DOE, use only initials for a personal author's first name.

ELEMENT: Report Date

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: The document's date of publication as displayed on the Document. If this date is not provided, the latest reference date contained in the document or the document's date of receipt is normally used in this field. The date entered occassionally corresponds to some other time such as the date translations are translated, the date of issue or filing for a patent, or a journal article's publication date in some other journal.

CONTENT: A variable length field (50 character maximum) usually containing one date expressed in one of the following ways: Entry of 1 or 2 numeric day, 3 alpha character month, 2 numeric year, e.g. 8 May 82, 18 Apr 82; date entry may be made without day, e.g., Apr 82; if no month is provided, the full year is used, e.g., 1982; when document gives period covered, the year is not repeated, e.g., 1 Jan-30 Apr 82. Multiple date entries are separated by a comma-space. Date(s) can be preceded by words such as "filed" or "patented". The field may begin with a lower case "c" to indicate that the item is copyrighted.

INTERNAL TAG: 11.

DESC: N/A.

EXTERNAL TAG: 480.

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document Staff

NOTES: (1) See the NTIS DESCRIPTIVE CATALOGING RULES for further information on report date determination.

ELEMENT: Pagination

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: A count of the total number of pages that a document contains including introductory material and appendices. For magnetic tapes, microfilm and other media, there will be a reference note in this field instead of a page count.

CONTENT: A variable length field (60 character maximum) containing either a page count or a text message. The page count is composed of up to four numerics followed directly by a "p" or "p*" (denoting high interest) and an occassional short narrative of alphanumerics. The text message contains alphanumerics that make reference to magnetic tapes or microfilm with or without the number of volumes or reels.

INTERNAL TAG: 12

DESC: N/A

EXTERNAL TAG: 520

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Document

NOTES: (1) This data element is used to determine NTIS paper copy prices on "regular" documents.

ELEMENT: Primary Description (Set)

SOURCE AGENCY: NTIS

USE: If Available

DEFN: This multipurpose field is infrequently used for generalized information on a set of documents announced by NTIS in a "compressed entry" format. Such information includes the set's accession number, price codes, title, common date, and number of volumes or issues. The field receives more frequent use in holding a special source number for any document that has the Environmental Protection Agency (EPA) as its corporate author, sponsor, or monitor.

CONTENT: A variable length field (600 character maximum) divided into 8 subfields when used. A subfield is separated by a percent sign (%) with no punctuation after the last subfield. If a particular subfield has no data, the % will appear unless there are no following subfields. The 8 subfields and their alphanumeric data types are as follows: Subfield 1- when used, a special 6-character APA source code composed of 3 numerics, a "/", and 2 numerics; Subfield 2- % (not used); Subfield 3 accession number (usually 11 characters) which applies to the entire set of reports; Subfield 4 Paper copy and microfiche price codes of the set; Subfield 5- % (not used); Subfield 6- Title which applies to the set; Subfield 7- most specific date common to the set; and Subfield 8- number of volumes or issues in the set.

INTERNAL TAG: 13

DESC: N/A

EXTERNAL TAG: N/A

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This data element field does not exist on the NTIS Sales Tape. (2) A complete bibliographic record for each document in a set or series is entered into the NTIS data base; however, the "compressed entry" format minimizes the amount of repetitive announcement information printed in NTIS publications. For compressed entries, the Primary Description (Set) is used in conjunction with the Item Description (Set) located in Field 7).

ELEMENT: Report Numbers

SOURCE AGENCY: NTIS

USE: If available

DEFN: A unique report series number(s) assigned to a document by the performing organization(s) or the sponsoring organization(s) when it is also the performing organization.

CONTENT: A variable length field (80 character maximum) containing one alphanumeric number to two alphanumeric numbers separated by a comma. A number entry is always preceded by a "reverse slash" delimiter and most numbers are composed of a alphaprefix followed by numerics. Any spaces within the number are filled with a hyphen. The field begins with text such as "Rept no.", "Rept nos," or "Memo". A null entry is represented by a double "reverse slash".

INTERNAL TAG: 14

DESC: N/A

EXTERNAL TAG: 170

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: (1) This data element is referred to as the "Originating Agency Report Numbers" on the NTIS sales tape.

ELEMENT: Contract or Grant Numbers

SOURCE AGENCY: NTIS

USE: If Available

DEFN: The contract or order funding number that identifies the financial support of the research results recorded in a document.

CONTENT: A variable length field (80 character maximum) containing either one alphanumeric number or two alphanumeric numbers separated by a comma-space. A number may be preceded by "Contract(s)" and is always precede by a "reverse slash". There may be a null entry represented by a double "reverse slash".

INTERNAL TAG: 15

DESC: N/A

EXTERNAL TAG: 320

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: (1) This data element is referred to as "Contract/Order Numbers" on the NTIS Sales Tape.
(2) Field 15 can contain up to two contract, order, or grant numbers of any mixture. The number(s) appear in the following sequence: Contract number(s) - Order Number(s) - Grant Number(s).

ELEMENT: Contract or Grant Numbers

SOURCE AGENCY: NTIS

USE: If Available

DEFN: The grant funding number that identifies the financial support of the research results recorded in a document.

CONTENT: A variable length field (80 character maximum) containing either one alphanumeric number or two alphanumeric numbers separated by a comma-space. A number may be preceded by "Grant(s)" and is always preceded by a "reverse slash". There may be a null entry represented by a double "reverse slash".

INTERNAL TAG: 15

DESC: N/A

EXTERNAL TAG: 330

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: (1) This data element is referred to as "Grant Numbers" on the NTIS Sales Tape.
(2) Field 15 can contain up to two contract, order or grant numbers of any mixture. The number(s) appear in the following sequence: Contract Number(s) - Order Number(s) - Grant Number(s).

ELEMENT: Project Numbers

SOURCE AGENCY: NTIS

USE: If Available

DEFN: A number which identifies a specific project within a given Contract, Order, or Grant that was undertaken to provide the research results recorded in a document.

CONTENT: A variable length field (80 character maximum) containing either one alphanumeric number or two alphanumeric numbers separated by a comma-space. A project number is always precede by a "reverse slash". The field always begins with "Proj" or "Projs" unless there is a null entry which is represented by a double "reverse slash".

INTERNAL TAG: 16

DESC: N/A

EXTERNAL TAG: 290

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: N/A

ELEMENT: Task Numbers

SOURCE AGENCY: NTIS

USE: If Available

DEFN: A number which identifies a specific task within a given Contract, Order or Grant that was
    undertaken to provide the research results recorded in a document.

CONTENT: A variable length field (80 character maximum) containing either one alphanumeric number or
    two alphanumeric numbers separated by a comma-space. A task number is always preceded by a "reverse slash".
    The field always begins with "Task" or "Tasks" unless there is a null entry which is represented
    by a double "reverse slash".

INTERNAL TAG: 17

DESC: N/A

EXTERNAL TAG: 210

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document

NOTES: This field is seldom used and therefore usually contains a null entry.

ELEMENT: Monitor Agency Acronym

SOURCE AGENCY: NTIS

USE: Required

DEFN: An acronym prefix which is the first segment of the report series number assigned to a document by the monitoring or sponsoring organization(s); the remainder of the report series number--Monitor Agency Number--is placed in Field 19. This acronym is usually the sponsoring organization's designated acronym.

CONTENT: The field is divided into two subfields, each with a 20 character maximum limit. A subfield contains alphanumerics in caps representing an acronym that varies in alphanumeric and spacing composition according to an organization's own designation. Any spaces within the acronym are filled with a hyphen. A null entry is not uncommon.

INTERNAL TAG: 18

DESC: The two subfield tag codes and their definitions are as follows: 18=Monitor Agency Acronym 1; 18A= Monitor Agency Acronym 2.

EXTERNAL TAG: 180

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: (1) This data element is referred to as the "Monitor Acronym" on the NTIS sales tape. (2) When the sponsoring organization is also the performing organization, this field will contain a null entry as the acronym becomes part of the report number that appears in Field 18. (3) The first Monitor Agency Acronym (Field 18) and corresponding Number (Field 19) are combined for NTIS indexes and announcement publications; data fields 18A and 19A which hold the second Monitor Agency Acronym and Number, if any, are processed the same way.

ELEMENT: Monitor Agency Number

SOURCE AGENCY: NTIS

USE: Required

DEFN: A series number which is the remaining segment of a unique report series number assigned to a document by the monitoring or sponsoring organization(s); the first segment of the Reports Series Number--Monitor Agency Acronym--is placed in Field 18.

CONTEXT: The field is divided into two subfields, each with a 30 character maximum limit. A subfield contains alphanumerics representing a series number that varies in alphanumeric and spacing composition according to an organization's usage. Any spaces within the number are filled with a hyphen. A null entry is not uncommon.

INTERNAL TAG: 19

DESC: The two subfield tag codes and their definitions are as follows: 19=Monitor Agency Number 1; 19A=Monitor Agency Number 2.

EXTERNAL TAG: 180

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Standard

NOTES: (1) This data element is referred to as the "Monitor Series Number" on the NTIS sales tape. (2) When the sponsoring organization is also the performing organization, this field will contain a null entry as the Monitor Agency number becomes part of the Report Number that appears in Field 14. (3) The first Monitor Agency Acronym (Field 18) and corresponding number (Field 19) are combined for NTIS indexes and announcement publications; data fields 18A and 19A which hold the second Monitor Agency Acronym and Number, if any, are processed the same way.

ELEMENT: Classification

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: A security classification of the total document indicating the degree of protection required against unauthorized disclosure as determined by the needs and interests of the national defense.

CONTENT: A variable length field (30 character maximum) containing the constant "Unclassified report".

INTERNAL TAG: 20

DESC: N/A

EXTERNAL TAG: 110

DESC: N/A

CHARACTER SET: Alphabetic

DATA SOURCE: Machine

NOTES: (1) NTIS receives, announces, and distributes "unclassified" documents and magnetic tapes only.

ELEMENT: Supplementary Notes

SOURCE AGENCY: NTIS

USE: Optional

DEFN: Information about the document not included elsewhere in the descriptive cataloging. This
includes ad hoc statements on the following data types: Related reports; language when non
English; superceded reports; sources of a translation or periodical citation; additional performing
or sponsoring organizations; additional contract or report numbers; and project or report series
names.

CONTENT: A variable length field (900 character maximum) containing a narrative of alphanumerics.

INTERNAL TAG: 21

DESC: N/A

EXTERNAL TAG: 580

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: (1) This data element is referred to as the "Supplementary Note" on the NTIS sales tape.

ELEMENT: Availability Note

SOURCE AGENCY: NTIS

USE: Optional

DEFN: A narrative statement concerning the document's access taken from information on its distribution control and availability limitation. The statement serves as special ordering instructions especially for documents not available from NTIS. For a reprint, reference is made to the periodical in which it is published.

CONTENT: A variable length field (400 character maximum) containing an Alphanumeric text message.

INTERNAL TAG: 22

DESC: N/A

EXTERNAL TAG: 130

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This data element is referred to as the "Limitations Statement" on the NTIS Sales Tape. (2) NTIS occassionally announces "Reprints" but does not reproduce them; rather, the periodical citation to reprints are provided in this field.

ELEMENT: Descriptors

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: Single or multiword terms which describe the subject content of a document. These terms express the most significant concepts of the document and are assigned by NTIS or other document contributing agencies using various controlled vocabulary thesauri or word lists.

CONTENT: A variable length field (1500 character maximum) containing alphanumeric terms always preceded by an asterisk denoting significant importance. The term has no entry character limitation; it will be a single word or phrase that may include a parenthesized modifier. The field always begins with the prefix "Descriptors" and the terms are separated by a comma-space.

INTERNAL TAG: 23

DESC: N/A

EXTERNAL TAG: 380

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This data element is referred to as "Asterisked Descriptors" on the NTIS sales tape. (2) "Asterisked" descriptors assigned by NTIS may express the document's applications as well as its subject content. The number of these descriptors posted to a document usually ranges from one to four and may be zero in rare cases. (3) "Asterisked" descriptors enhance computer subject searching techniques and permit manual subject searching as they are used to sort documents in the subject index of the GOVERNMENT REPORTS ANNOUNCEMENTS AND INDEX (GRA & I).

ELEMENT: Descriptors

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: Single or multiword terms which describe the subject content of a document. These terms express the lesser important concepts of the document and are assigned by NTIS or other document contributing agencies using various controlled vocabulary, thesauri or word lists.

CONTENT: A variable length field (1500 character maximum) containing alphanumeric terms that may be preceded by "Asterisked" terms denoting significant importance. The term has no entry character limitation; it will be a single word or phrase that may include a parenthesized modifier. The field always begins with the prefix "Descriptors" and the terms are separated by a comma-space.

INTERNAL TAG: 23

DESC: N/A

EXTERNAL TAG: 400

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This data element is referred to as "Un-asterisked descriptors" on the NTIS sales tape. (2) "Un-asterisked" descriptors assigned by NTIS may express the document's applications as well as its subject content. The number of the descriptors posted to a document usually ranges from one to twelve and may be zero in rare cases. (3) "Un-asterisked" descriptors permit computer subject searching to take place.

ELEMENT: Identifiers

SOURCE AGENCY: NTIS

USE: Optional

DEFN: Single or multiword terms that describe a document's subject content or makes reference to concepts in that document. These terms are used to express concepts for which there are no adequate Descriptors (Field 23); they are assigned by NTIS or other document contributing agencies using various controlled vocabulary thesauri, word lists, originator suppled key words, code names, project names, etc.

CONTENT: A variable length field (1000 character maximum) containing alphanumeric terms that may be preceded by an asterisk denoting significant importance. The term has no entry character limitation; it will be a single word or phrase that may include a parenthesized modifier. The field begins with the prefix "Identifiers" and the terms are separated by a comma-space.

INTERNAL TAG: 25

DESC: N/A

EXTERNAL TAG: 440

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Machine

NOTES: (1) NTIS attempts to select identifiers from thesaurus not used for Descriptors (Field 23) and adds new terms to the NTIS vocabulary when warranted. (2) Identifiers assigned by NTIS may express the document's applications as well as its subject content. (3) Identifiers enhance the process of computer subject searching; the number of identifiers assigned depends upon the subject content of the document. (4) Identifiers preceded by an asterisk are those terms that express the most significant concepts of a document; they enhance computer subject searching techniques and permit manual subject searching as they are used to sort documents in the subject index of the GOVERNMENT REPORTS ANNOUNCEMENTS AND INDEX (GRA&I). There must be at least one "asterisked" identifier assigned to a document if no "asterisked" descriptors have been posted to that document. (5) A special data base retrieval code(s) located at the end of Field 3 are added to the end of Field 25 on the NTIS Sales Tape by the Computer.

ELEMENT: Highlights Notes

SOURCE AGENCY: NTIS

USE: Optional

DEFN: A descriptive note serving as a title modifier to a document highlighted in
      NTIS publications. This information is used for promotional purposes only.

CONTENT: A variable length field (600 character maximum) containing either an alphanumeric
         text, the alphanumeric constant "(H)" or the "C" null entry.

INTERNAL TAG: 26

DESC: N/A

EXTERNAL TAG: 430

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff

NOTES: (1) This seldom-used data element always contains a constant "(H)" on the NTIS Salem Tape. (2)
       Unlike the Title Note (Field 9) and the Title annotation (Field 30), the Highlights Note
       is not used for cataloging purposes.

ELEMENT: Abstract

SOURCE AGENCY: NTIS

USE: If available

DEFN: A brief narrative description of the document in an informative or indicative context. Informative abstracts identify the methods, results, applications, and conclusions; indicative abstracts describe content or scope.

CONTENT: A variable length field (3500 character maximum) normally containing a narrative of alphanumerics. In rare cases, the text message "Abstract Not Available" will appear in this field instead of an abstract.

INTERNAL TAG: 27

DESC: N/A

EXTERNAL TAG: 620

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Document   Staff

NOTES: (1) Abstracts are usually limited to 200 words, and are written by the author, NTIS, or the document submitting agency. (2) As NTIS announces some research documents that it does not physically receive for distribution, there are cases for which no abstract is available; a message indicating this fact is entered when this occurs. (3) Some editorial work may be done to the abstract by NTIS or other document submitting agencies such as verbalizing for machinability, editing and length, etc.

ELEMENT: Inventory Balance

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: The number of initial document copies physically received by NTIS from source agencies. No entry is recorded for document records received on magnetic tape.

CONTENT: A variable length field (10 character maximum) containing numerics or a null entry

INTERNAL TAG: 29

DESC: N/A

EXTERNAL TAG: 810

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: (1) This data element field is blank on the NTIS Sales Tape. (2) The Inventory Balance is never updated.

ELEMENT: Title Annotation

SOURCE AGENCY: NTIS

USE: Optional

DEFN: The title and subtitle of a document annotated with a prefix, suffix or in rare cases
with other added words. Such title modification provides additional information for
NTIS produced indexes.

CONTENT: A variable length field (600 character maximum) containing a narrative of alphanumerics
in initial caps and lower case. As this field is frequently empty, the null entry is
represented by "cent sign".

INTERNAL TAG: 30

DESC: N/A

EXTERNAL TAG: 270

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Staff   Standard

NOTES: (1) This data element is referred to as the "Annotated Title" on the NTIS Sales Tape. (2)
Except for NASA reports, this data element is used in place of the "Title" (Field 6) in NTIS
produced indexes. (3) The prefix text "Reprint:" is used for reprints; it may be
preceded by "+++" which is removed when preparing publications and data base files.

ELEMENT: DDC Limitation Code

SOURCE AGENCY: NTIS

USE: If Available

DEFN: A code that represents the distribution control, availability limitation, and special coding
of additional disclosure constraints for Department of Defense (DOD) documents.

CONTENT: A variable length field (20 character maximum) containing from 1-3 numeric codes composed
of one or two characters each. Codes 1-17 are distribution control codes and are mandatory;
codes 20-24 are optional and represent a document's availability limitation and its place
of purchase if so designated; and codes 50-54 indicate additional disclosure constraints and
are optional.

INTERNAL TAG: 33

DESC: N/A

EXTERNAL TAG: 140

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine

NOTES: (1) This data element is referred to as "Limitations Codes" on the NTIS sales tape. (2) DDC
Limitation Codes are derived from the Defense Technical Information Center (DTIC) tape of "AD"
documents received by NTIS every two weeks, See DATA ELEMENT DICTIONARY; DTIC UNIFORM DATA SYSTEM
(AD-A083 800, Pages IX-61/65) for the codes and their definitions. (3) For reports received
from service agencies other than DOD, Field 33 is empty and ignored.

ELEMENT: Serials

SOURCE AGENCY: NTIS

USE: If Available

DEFN: A code representing a modified version of certain information described in the "Title Note" contained in Field 6. This information may include the document type (i.e. final report, annual report), title succession (i.e. volumes, parts), and numeric succession or serialization.

CONTENT: A variable length field (20 character maximum) usually containing one alphanumeric code composed of one character when used. The field normally has a null entry.

INTERNAL TAG: 34

DESC: N/A

EXTERNAL TAG: 190

DESC: N/A

CHARACTER SET: Alphanumeric

DATA SOURCE: Machine

NOTES: (1) This data element is referred to as "Other Report Numbers (Serials) on the NTIS Sales Tape.
(2) Some of the more common Serials codes and their definitions are as follows: F=Final; A=Annual; S=Summary; and #=Numeric succession. Numeric serialization (Title note, Field 9), Title succession such as volume, parts, books etc. (Title, Field 6).

ELEMENT: Corporate Author Code

SOURCE AGENCY: NTIS

USE: Required

DEF: Numeric designation of the organization established as main corporate source (Primary Performing Agency) for a document.

CONTENT: A variable length field (20 character maximum) containing either 6, 7, 8, or 9 numerics.

INTERNAL TAG: 35

DESC: N/A

EXTERNAL TAG: 310

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Staff

NOTES: (1) This data element is referred to as the "Source Code" on the NTIS sales tape. (2) A Corporate Author Code is used in subsequent reference to the organization it represents. DOD documents have a six digit code; DOE documents carry a seven digit code; NASA documents have an eight digit code; and NTIS processed documents carry a nine digit code.

ELEMENT: Document Location Code

SOURCE AGENCY: NTIS

USE: Mandatory

DEFN: A numeric code used internally by NTIS to indicate that a document is physically located
at NTIS.

CONTENT: A variable length field (10 character maximum) containing the numeric constant of "1".

INTERNAL TAG: 36

DESC: N/A

EXTERNAL TAG: 830

DESC: N/A

CHARACTER SET: Numeric

DATA SOURCE: Machine

NOTES: This data element was originally established by the Department of Defense to indicate whether
a DOD document was physically located at DTIC (formerly DDC) or NTIS.

COOPERATIVE DATA ELEMENT DICTIONARY - NTIS INDEX BY ELEMENT NAME

DATA ELEMENT NAME   SUBMITTING AGENCY   PAGE NUMBER

Data Element Name	Submitting Agency	Page Number
Abstract	NTIS	0308
Accession Number	NTIS	0283
Availability Note	NTIS	0303
Classification	NTIS	0301
Contract or Grant Numbers	NTIS	0295
Contract or Grant Numbers	NTIS	0296
Corporate Author Code	NTIS	0313
Corporate Source	NTIS	0285
Descriptors	NTIS	0304
Descriptors	NTIS	0305
Document Location Code	NTIS	0314
DDC Limitation Code	NTIS	0311
Highlights Notes	NTIS	0307
Identifiers	NTIS	0306
Inventory Balance	NTIS	0309
Item Description (Set)	NTIS	0287
Journal Volume and Issue Codes	NTIS	0288
Monitor Agency Acronym	NTIS	0299
Monitor Agency Number	NTIS	0300
NTIS In-House Control Codes	NTIS	0283
NTIS Prices	NTIS	0284
NTIS Subject Category Codes	NTIS	0282
Pagination	NTIS	0292
Personal Author(s)	NTIS	0290
Primary Description (Set)	NTIS	0293
Project Numbers	NTIS	0297
Report Date	NTIS	0291
Report Numbers	NTIS	0294
Serials	NTIS	0312
Supplementary Notes	NTIS	0302
Task Numbers	NTIS	0298
Title	NTIS	0286
Title Annotation	NTIS	0310
Title Note	NTIS	0289

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COOPERATIVE DATA ELEMENT DICTIONARY - NTIS INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
01	Accession Number	NTIS	0261
02	NTIS Subject Category Codes	NTIS	0282
03	NTIS In-House Control Codes	NTIS	0283
04	NTIS Prices	NTIS	0284
05	Corporate Source	NTIS	0285
06	Title	NTIS	0286
07	Item Description (Set)	NTIS	0287
08	Journal Volume and Issue Codes	NTIS	0288
09	Title Note	NTIS	0289
10	Personal Author(s)	NTIS	0290
11	Report Date	NTIS	0291
12	Pagination	NTIS	0292
13	Primary Description (set)	NTIS	0293
14	Report Numbers	NTIS	0294
15	Contract or Grant Numbers	NTIS	0295
15	Contract or Grant Numbers	NTIS	0296
16	Project Numbers	NTIS	0297
17	Task Numbers	NTIS	0298
18	Monitor Agency Acronym	NTIS	0299
19	Monitor Agency Number	NTIS	0300
20	Classification	NTIS	0301
21	Supplementary Notes	NTIS	0302
22	Availability Note	NTIS	0303
23	Descriptors	NTIS	0304
23	Descriptors	NTIS	0305
25	Identifiers	NTIS	0306
26	Highlights Notes	NTIS	0307
27	Abstract	NTIS	0308
29	Inventory Balance	NTIS	0309
30	Title Annotation	NTIS	0310
33	DDC Limitation Code	NTIS	0311
34	Serials	NTIS	0312
35	Corporate Author Code	NTIS	0313
36	Document Location Code	NTIS	0314

COOPERATIVE DATA ELEMENT DICTIONARY - NTIS INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
N/A	Primary Description (Set)	NTIS	0293
001	Accession Number	NTIS	0281
110	Classification	NTIS	0301
130	Availability Note	NTIS	0301
140	DDC Limitation Code	NTIS	0311
160	Journal Volume and Issue Codes	NTIS	0288
170	Report Numbers	NTIS	0294
180	Monitor Agency Acronym	NTIS	0299
180	Monitor Agency Number	NTIS	0300
190	Serials	NTIS	0312
200	Project Numbers	NTIS	0297
210	Task Numbers	NTIS	0298
220	Title	NTIS	0286
240	Item Description (Set)	NTIS	0287
270	Title Annotation	NTIS	0310
280	Personal Author(s)	NTIS	0290
300	Corporate Source	NTIS	0285
310	Corporate Author Code	NTIS	0313
320	Contract or Grant Numbers	NTIS	0295
330	Contract or Grant Numbers	NTIS	0296
350	NTIS Subject Category Codes	NTIS	0282
380	Descriptors	NTIS	0304
400	Descriptors	NTIS	0305
430	Highlights Notes	NTIS	0307
440	Identifiers	NTIS	0306
480	Report Date	NTIS	0291
520	Pagination	NTIS	0292
530	NTIS Prices	NTIS	0288
540	Title Note	NTIS	0289
580	Supplementary Notes	NTIS	0302
620	Abstract	NTIS	0308
800	NTIS In-House Control Codes	NTIS	0281
810	Inventory Balance	NTIS	0309
830	Document Location Code	NTIS	0314

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY ELEMENT NAME

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY ELEMENT NAME

_COOPERATIVE_DATA_ELEMENT_ DICTIONARY - CONSOLIDATED INDEX BY ELEMENT NAME

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY ELEMENT NAME

DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
LC CARD NUMBER	GPOS	0148
LEADER, BYTES 0-23	GPOS	0092
LEGEND, LEADER, BYTES 6-9.	GPOS	0095
LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0104
LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108
LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
LOCAL NOTE	GPOS	0186
LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
Machine Record Classification	DTIC	0048
Major Subject Terms-Bujs	NASA	0276
Microfiche Availability Code-Block 26	NASA	0227
Microfiche Code Prefix-Block 23	NASA	0224
Microfiche Code Suffix-Block 24	NASA	0225
Microfiche Reproduction Authorization-Block 22	NASA	0222
Microfiche Source Origin-Block 25	NASA	0226
Minor Subject Terms-Buns	NASA	0277
Miscellaneous Note-Docn	NASA	0269
Monitor Acronym	DTIC	0059
Monitor Agency Acronym	NTIS	0299
Monitor Agency Number	NTIS	0360
Monitor Series	DTIC	0060
MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0163
MAIN ENTRY - CORPORATE NAME	GPOS	0162
MAIN ENTRY - PERSONAL NAME	GPOS	0161
MAIN ENTRY - UNIFORM TITLE HEADING	GPOS	0164
MAIN ENTRY IN BODY OF ENTRY INDICATOR	GPOS	0138
MATHEMATICAL DATA AREA	GPOS	0169
MODIFIED RECORD CODE	GPOS	0342
Number of Volumes in Set-Bvol	NASA	0270
NASA Formal Series-Block 09	NASA	0208
NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
NATURE OF CONTENTS CODE	GPOS	0333
NTIS Hardcopy Available-Block 37	NASA	0238
NTIS IN-House Control Codes	NTIS	0283
NTIS Microfiche Available-Block 37	NASA	0239
NTIS Note	DOES	0032
NTIS Price	DTIC	0085
NTIS Price	NTIS	0284
NTIS Subject Category Codes	NTIS	0282
Other Announcements-Bota	NASA	0267
ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0116
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Pagination	NTIS	0292
Pagination	DTIC	0053
Pagination (Page Count)-Block 10	NASA	0211
Personal Author	DTIC	0051
Personal Author (N)	DOES	0006
Personal Author Affiliation-Bpaa	NASA	0258
Personal Author Type-Bpat	NASA	0257
Personal Author (n)	NTIS	0290

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Place of Publication-Bpop	NASA	0260
Posting Terms / Descriptors.	DTIC	0064
Posting Terms-Descriptors	DTIC	0065
Presentation Note-Npxr	NASA	0265
Primary Description (Set)	NTIS	0293
Primary Note-Dprn	NASA	0259
Primary Report Number	DOES	0008
Primary Title (E)	DOES	0007
Project Numbers	NTIS	0297
Publication Date-Block 02	NASA	0202
Publisher-Bpub	NASA	0261
PHOTOREPRODUCTION NOTE	GPOS	0184
PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
PHYSICAL DESCRIPTION FIXED FIELD	GPOS	0113
POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.	GPOS	0117
Receipt Date-Block 11	NASA	0210
Receipt Type-Block 08	NASA	0207
References-Block a1	NASA	0283
Regrade Category / Declassification Code	DTIC	0078
Remote Terminal (2RI) Site Holdings Symbol	DTIC	0090
Report date	DTIC	0052
Report Class (A)-Block 21	NASA	0220
Report Class (B)-Block 21	NASA	0221
Report Classification	DTIC	0061
Report Date	NTIS	0291
Report Number(M)-Srpn	NASA	0288
Report Numbers	NTIS	0299
Report Origin	DOES	0022
Reprint Note-Srpr	NASA	0262
Reproduction Authorized (Y or N)-Block 20	NASA	0219
RDT&E Project Number	DTIC	0057
RDT&E Task Number	DTIC	0054
RECORD DIRECTORY	GPOS	0110
RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.	GPOS	0119
REPORT NUMBER	GPOS	0360
ROMANIZED TITLE	GPOS	0166
Sales Agency and Pricing-Bsap	NASA	0273
Secondary Report Number	DOES	0009
Secondary Source Code-Bsec	NASA	0258
Serial Number / Source Series	DTIC	0076
Serials	NTIS	0312
Source of Bibliographic Information	DOES	0025
Source Code	DTIC	0077
Source Series / Report Number	DTIC	0054
Special Codes	DTIC	0073
Special Handling-Block 36	NASA	0237
Special Publication Notes-Bspb	NASA	0266
Subdistribution Category	DOES	0014
Subject Categories	DOES	0024
Subject Descriptor Count	DOES	0037
Subject Descriptors, General	DOES	0038
Subject Descriptors, Splits	DOES	0036

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY ELEMENT NAME

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Subject Fields-Block 40	NASA	0242
Subject Groups-Dcmc	NASA	0238
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Supplementary Note	DTIC	0062
Supplementary Notes	NTIS	0302
Supporting Research and Technology Code-Ssrt	NASA	0271
SERIES ADDED ENTRY - CORPORATE NAME/TITLE	GPOS	0199
SERIES ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0200
SERIES STATEMENT - TITLE (TRACED)	GPOS	0174
SERIES UNTRACED OR TRACED DIFFERENTLY	GPOS	0175
SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD.	GPOS	0115
STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
STOCK NUMBER	GPOS	0144
SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
SUBJECT ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0189
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SUBJECT ADDED ENTRY - GEOGRAPHIC NAME	GPOS	0192
SUBJECT ADDED ENTRY - PERSONAL NAME	GPOS	0187
SUBJECT ADDED ENTRY - TOPICAL HEADING	GPOS	0191
SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0190
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Title	NTIS	0285
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Title Annotation	NTIS	0310
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Title Classification	DTIC	0049
Title Extension-Stxt	NASA	0275
Title Note	NTIS	0289
Title Security Classification-Block 34	NASA	0235
Title Supplementary-Stls	NASA	0255
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Type Code	DTIC	0083
TIC Item Identification Number	DOES	0002
TIC Utilization	DOES	0045
TITLE STATEMENT	GPOS	0167
TRAC number	DOES	0011
TYPE OF PUBLICATION DATE CODE	GPOS	0146
TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096
TYPE OF REPORT AND PERIOD COVERED	GPOS	0162
Unclassified Foreign Title-Duft	NASA	0256
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UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
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INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
aaba	Abstract Author-aaba	NASA	0266
aabp	Abstract Preparation-Block 38	NASA	0240
aabs	Abstract-aabs	NASA	0279
aacl	Access Level-NASA-Block 30	NASA	0231
aacl	Access Level-Other Government-Block 31	NASA	0232
aacl	Access Level-Non-Government-Block 32	NASA	0233
aali	Incomplete List of Authors-Block 15	NASA	0212
aana	Analytic Note-aana	NASA	0278
aanp	Analytic Primary-Block 44/Number-Block 42	NASA	0245
aans	Analytic Subsidiary Subject Code-Block 43	NASA	0288
aans	Analytic Subsidiary-Block 44/Number-Block 42	NASA	0246
aaut	Author-aaut	NASA	0250
abbr	References-Block 41	NASA	0243
acat	Subject Fields-Block 40	NASA	0282
acfs	Country of Finance-Block 17	NASA	0214
acnt	Contract/Grant Number-acnt	NASA	0289
acor	Country of Origin-Block 17	NASA	0215
acph	Country of Publication-Block 17	NASA	0216
acrt	Copyrighted (Y or N)-Block 19	NASA	0218
acsc	Subject Groups-acsc	NASA	0274
acsm	Corporate Source Monitor-acsm	NASA	0272
acss	Corporate Source Supplement-acss	NASA	0251
adcf	Distribution Control and Analysis File (DCAF)-Block 45	NASA	0247
adcl	Document Class-Block 28	NASA	0229
addg	Downgrading - Declassification Group-Block 35	NASA	0236
adsc	Document Security Classification-Block 33	NASA	0234
afoi	Form of Original Input-afoi	NASA	0252
afst	Financial Support-Block 29	NASA	0230
ahar	Hardcopy Availability Code-Block 27	NASA	0228
ailc	Incomplete List of Contracts-Block 10	NASA	0209
aiss	Issue Number-Block 07	NASA	0206
algn	Document Language-Block 16	NASA	0213
algn	Language Note-algn	NASA	0264
amcn	Miscellaneous Note-amcn	NASA	0269
amjs	Major Subject Terms-amjs	NASA	0276
amns	Minor Subject Terms-amns	NASA	0277
amur	Microfiche Availability Code-Block 26	NASA	0227
aota	Other Announcements-aota	NASA	0261
apaa	Personal Author Affiliation-apaa	NASA	0258
apag	Pagination (Page Count)-Block 14	NASA	0211
apat	Personal Author Type-apat	NASA	0257
apdt	Publication Date-Block 02	NASA	0202
apop	Place of Publication-apop	NASA	0260
apra	Primary Note-apra	NASA	0259
apre	Presentation Note-apre	NASA	0265
apub	Publisher-apub	NASA	0263
arcd	Receipt Date-Block 13	NASA	0210
arcl	Report Class (A)-Block 21	NASA	0229
arct	Receipt Type-Block 08	NASA	0207
arpn	Report Number(s)-arpn	NASA	0248
arpr	Reprint Note-arpr	NASA	0262
asan	Special Handling-Block 36	NASA	0237
asap	Sales Agency and Pricing-asap	NASA	0213

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY INTERNAL TAG

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
esch	NTIS Hardcopy Available-Block 37	NASA	0238
ahcn	NTIS Microfiche Available-Block 37	NASA	0239
aspb	Special Publication Notes-aspb	NASA	0266
9src	Corporate Source-Block 03	NASA	0203
srrt	Supporting Research and Technology Code-asrt	NASA	0271
ssc	Secondary Source Code-asec	NASA	0254
asup	Supplement Note-asup	NASA	0268
atls	Title Supplementary-atls	NASA	0255
atpr	Report Class (R)-Block 21	NASA	0221
atra	Translation Note-atra	NASA	0261
atrn	Translated Document-Block 10	NASA	0217
atsc	Title Security Classification-Block 34	NASA	0235
atxt	Title Extension-atxt	NASA	0275
autf	Unclassified Foreign Title-autf	NASA	0256
autl	Title (Unclassified)-autl	NASA	0251
avol	Number of Volumes in Set-avol	NASA	0270
ADD	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
AEC	ADDED ENTRY - CORPORATE NAME	GPOS	0195
AED	ADDED ENTRY - TITLE TRACED DIFFERENTLY	GPOS	0193
AEN	ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0196
AEP	ADDED ENTRY - PERSONAL NAME	GPOS	0194
AEU	ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0192
CAL	LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
CAS	CATALOGING SOURCE	GPOS	0149
CMD	CODED MATHEMATICAL DATA	GPOS	0147
COL	PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
COP	COPY, ISSUE, OFFPRINT STATEMENT	GPOS	0153
DDC	DEWEY DECIMAL CLASSIFICATION NUMBER	GPOS	0155
EDN	EDITION STATEMENT	GPOS	0168
FFD	FIXED LENGTH DATA ELEMENTS	GPOS	0124
FFD	DATE 2	GPOS	0128
FFD	INDEX INDICATOR	GPOS	0137
FFD	DATE 1	GPOS	0127
FFD	MODIFIED RECORD CODE	GPOS	0142
FFD	DATE ENTERED ON FILE	GPOS	0125
FFD	TYPE OF PUBLICATION DATE CODE	GPOS	0126
FFD	ILLUSTRATION CODE	GPOS	0130
FFD	CATALOGING SOURCE CODE	GPOS	0143
FFD	INTELLECTUAL LEVEL CODE	GPOS	0131
FFD	FORM OF REPRODUCTION CODE	GPOS	0132
FFD	NATURE OF CONTENTS CODE	GPOS	0133
FFD	CONFERENCE PUBLICATION INDICATOR	GPOS	0135
FFD	FESTSCHRIFT INDICATOR	GPOS	0136
FFD	MAIN ENTRY IN BODY OF ENTRY INDICATOR	GPOS	0138
FFD	FICTION INDICATOR	GPOS	0139
FFD	BIOGRAPHY CODE	GPOS	0140
FFD	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE	GPOS	0129
FFD	LANGUAGE CODE	GPOS	0141
FFD	GOVERNMENT PUBLICATION CODE	GPOS	0134
GAC	GEOGRAPHIC AREA CODES	GPOS	0151
IMP	IMPRINT STATEMENT (AACR2)	GPOS	0170
ITM	GPO ITEM NUMBER	GPOS	0157
LAN	LANGUAGE CODE	GPOS	0150

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INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMB/R
LCN	LC CARD NUMBER	GPOS	0144
LEAD	INDICATOR COUNT, LEADER, BYTE 10.	GPOS	0099
LEAD	ENCODING LEVEL, LEADER, BYTE 17.	GPOS	0102
LEAD	SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
LEAD	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.	GPOS	0101
LEAD	LEADER, BYTES 0-23.	GPOS	0092
LEAD	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
LEAD	RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
LEAD	TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096
LEAD	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.	GPOS	0097
LEAD	LEADID, BYTES 6-9.	GPOS	0095
LEAD	BLANKS, LEADER, BYTES 8-9.	GPOS	0098
LEAD	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.	GPOS	0103
LEAD	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0106
LEAD	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LEAD	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108
LEAD	UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
LEAD	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.	GPOS	0105
BCC	GEOGRAPHIC CLASSIFICATION CODE	GPOS	0154
MDA	MATHEMATICAL DATA AREA	GPOS	0169
MNC	MAIN ENTRY - CORPORATE NAME	GPOS	0162
MEM	MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0163
MEP	MAIN ENTRY - PERSONAL NAME	GPOS	0161
MEU	MAIN ENTRY - UNIFORM TITLE HEADING.	GPOS	0164
N/A	Abstract Qualification-Block 39	NASA	0201
N/A	Temporary Number-Block 01	NASA	0201
N/A	Document Release Form-Block 68	NASA	0204
N/A	File ID-Block 06	NASA	0205
N/A	NASA Formal Series-Block 09	NASA	0208
N/A	Reproduction Authorized (Y or N)-Block 20	NASA	0219
N/A	Microfiche Reproduction Authorization-Block 22	NASA	0222
N/A	Copyright Override-Block 22	NASA	0223
N/A	Microfiche Code Prefix-Block 23	NASA	0224
N/A	Microfiche Code Suffix-Block 24	NASA	0225
N/A	Microfiche Source Origin-Block 25	NASA	0226
N/A	DATE AND TIME OF LATEST TRANSACTION	GPOS	0112
N/A	STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
N/A	REPORT NUMBER	GPOS	0160
N/A	ITEM COUNT/PAGE COUNT	GPOS	0173
N/A	TYPE OF REPORT AND PERIOD COVERED	GPOS	0182
N/A	FUNDING INFORMATION NOTE	GPOS	0165
N/A	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
N/A	BLANK (LEADER, BYTE 19)	GPOS	0104
NAL	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
NLM	NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
NLO	LOCAL NOTE	GPOS	0180
NOA	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE	GPOS	0183
NOB	BIBLIOGRAPHY/DISCOGRAPHY NOTE	GPOS	0179
NOD	DISSERTATION NOTE	GPOS	0178
NOG	GENERAL NOTE	GPOS	0176
NOC	CONTENTS NOTE (FORMATTED)	GPOS	0180
NOU	LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
NOW	"WITH" NOTE	GPOS	0177

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY INTERNAL TAG

COOPERATIVE DATA ELEMENT DICTIONARY = CONSOLIDATED INDEX BY INTERNAL_TAG.

INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
09	Descriptive Note	DTIC	0050
10	Personal Author(s)	NTIS	0290
10.	Personal Author	DTIC	0051
11	Report Date	NTIS	0291
11	Report date	DTIC	0052
110	Primary Title (S)	DOES	0007
12	Pagination	NTIS	0292
12	Pagination	DTIC	0053
13	Primary Description (Set)	NTIS	0293
14	Report Numbers	NTIS	0294
14	Source Series / Report Number	DTIC	0054
15	Contract or Grant Numbers	NTIS	0295
15	Contract or Grant Numbers	NTIS	0296
15	Contract or Grant Number	DTIC.	0055
15	Contract or Grant Number	DTIC	0056
150	Primary Report Number	DOES	0008
16	Project Numbers	NTIS	0297
16	RDT&E Project Number	DTIC	0057
17	Task Numbers	NTIS	0298
17	RDT&E Task Number	DTIC	0058
18	Monitor Agency Acronym	NTIS	0299
18	Monitor Acronym	DTIC	0059
19	Monitor Agency Number	NTIS	0300
19	Monitor Series	DTIC	0060
20	Classification	NTIS	0301
20	Report Classification	DTIC	0061
21	Supplementary Notes	NTIS	0302
21	Supplementary Note	DTIC	0062
210	Secondary Report Number	DOES	0009
22	Availability Note	NTIS	0303
22	Limitations (Alpha) / Distribution Availability Statements	DTIC	0063
23	Descriptors	NTIS	0304
23	Descriptors	NTIS	0305
23	Posting Terms / Descriptors	DTIC	0064
23	Posting Terms / Descriptors	DTIC	0065
24	Descriptor Classification	DTIC	0066
240	Contract Number	DOES	0010
25	Identifiers	NTIS	0306
25	Identifiers and Open-ended Terms	DTIC	0067
26	Highlights Notes	NTIS	0307
26	Identifiers and Open-ended Terms Classification	DTIC	0068
27	Abstract	NTIS	0308
27	Abstract	DTIC	0069
28	Abstract Classification	DTIC	0070
29	Inventory Balance	NTIS	0309
29	Initial Inventory / Inventory	DTIC	0071
290	TRAC number	DOES	0011
30	Title Annotation	NTIS	0310
30	Annotation / Index Annotation	DTIC	0072
31	Special Codes	DTIC	0073
32	Regrade Category / Reclassification Code	DTIC	0074
33	DDC Limitation Code	NTIS	0311
33	Limitation Availability Codes / Distribution Availability Codes	DTIC	0075

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INTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
33	Serials	NTIS	0312
34	Serial Number / Source Series	DTIC	0076
35	Corporate Author Code	NTIS	0313
35	Source Code	DTIC	0077
36	Document Location Code	NTIS	0314
36	Document Location	DTIC	0078
37	Classification Authority	DTIC	0079
370	Date	DOES	0012
38	Declassification Date or Event	DTIC	0080
39	Downgrade to Confidential Date or Event	DTIC	0081
390	Pages (B)	DOES	0013
40	Geopolitical Code	DTIC	0082
490	Subdistribution Category	DOES	0014
41	Type Code	DTIC	0083
42	IAC Report Number	DTIC	0084
620	Language	DOES	0015
43	IAC Document Type and Location Code	DTIC	0085
430	Availability-Price	DOES	0016
44	IAC Subject Terms	DTIC	0086
440	Drop Note	DOES	0017
45	Declassification Extension Authority	DTIC	0087
450	Conference Title	DOES	0018
46	Declassification Review Date	DTIC	0088
460	Conference Place	DOES	0019
47	Classification Extension Reason	DTIC	0089
470	Conference Date	DOES	0020
48	Remote Terminal (SBI) Site Holdings Symbol	DTIC	0090
49	Authority for Classification Field	DTIC	0091
510	Distribution Category	DOES	0021
520	Report Origin	DOES	0022
530	File Selected For	DOES	0023
560	Subject Categories	DOES	0024
530	Source of Bibliographic Information	DOES	0025
560	Country of Affiliation	DOES	0026
570	Country of Publication	DOES	0027
590	INIS Temporary Record Number	DOES	0028
600	INIS Type	DOES	0029
610	INIS Categories	DOES	0030
620	Title Augmentation	DOES	0031
640	NTIS Note	DOES	0032
700	Corporate Code (B)	DOES	0033
710	Corporate Author (B)	DOES	0034
750	TIC Utilization	DOES	0035
8nn	Subject Descriptors, Splits	DOES	0036
800	Subject Descriptor Count	DOES	0037
801	Subject Descriptors, General	DOES	0038
903	Descriptor Upposted Terms	DOES	0039
900	INIS Proposed Descriptors	DOES	0040
950	Abstract	DOES	0041

COOPERATIVE DATA ELEMENT DICTIONARY - CONSOLIDATED INDEX BY EXTERNAL TAG

EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
LEA	INDICATOR COUNT, LEADER, BYTE 10.	GPOS	0099
LEA	ENCODING LEVEL, LEADER, BYTE 17.	GPOS	0102
LEA	SUBFIELD CODE COUNT, LEADER, BYTE 11.	GPOS	0100
LEA	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.	GPOS	0101
LEA	LEADER, BYTES 0-23	GPOS	0092
LEA	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.	GPOS	0093
LEA	RECORD STATUS, LEADER, BYTE 5.	GPOS	0094
LEA	TYPE OF RECORD, LEADER, BYTE 6.	GPOS	0096
LEA	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.	GPOS	0097
LEA	LEGEND, LEADER, BYTES 6-9.	GPOS	0095
LEA	BLANKS, LEADER, BYTES 8-9.	GPOS	0098
LEA	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.	GPOS	0103
LEA	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.	GPOS	0106
LEA	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.	GPOS	0107
LEA	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.	GPOS	0108
LEA	UNDEFINED CHARACTER, LEADER, BYTE 23.	GPOS	0109
LEA	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.	GPOS	0105
LEA	BLANK (LEADER, BYTE 19)	GPOS	0104
N/A	Abstract Qualification-Block 39	NASA	0241
N/A	Primary Description (set)	NTIS	0293
N/A	Temporary Number-Block 01	NASA	0201
N/A	Document Release Form-Block 60	NASA	0204
N/A	File ID-Block 06	NASA	0205
N/A	NASA Formal Series-Block 09	NASA	0208
N/A	Reproduction Authorized (Y or N)-Block 20	NASA	0219
N/A	Microfiche Reproduction Authorization-Block 22	NASA	0222
N/A	Copyright Override-Block 22	NASA	0223
N/A	Microfiche Code Prefix-Block 23	NASA	0224
N/A	Microfiche Code Suffix-Block 24	NASA	0225
N/A	Microfiche Source Origin-Block 25	NASA	0226
N/A	Geopolitical Code	DTIC	0082
N/A	Type Code	DTIC	0083
N/A	IAC Report Number	DTIC	0084
N/A	IAC Document Type and Location Code	DTIC	0085
N/A	IAC Subject Terms	DTIC	0086
N/A	Remote Terminal (SDI) Site Holdings Symbol	DTIC	0090
N/A	Authority for Classification Field	DTIC	0091
REC	RECORD DIRECTORY	GPOS	0110
001	Accession Number	NTIS	0281
001	File Number	DOES	0001
001	Accession Number	DTIC	0042
001	CONTROL NUMBER	GPOS	0111
005	DATE AND TIME OF LATEST TRANSACTION	GPOS	0112
007	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.	GPOS	0116
007	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.	GPOS	0120
007	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0118
007	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.	GPOS	0122
007	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.	GPOS	0123
007	PHYSICAL DESCRIPTION FIXED FIELD	GPOS	0113
007	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.	GPOS	0117
007	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0115
007	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.	GPOS	0119
007	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD,	GPOS	0114

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EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
007	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE	GPOS	0123
008	FIXED LENGTH DATA ELEMENTS	GPOS	0124
008	DATE 2	GPOS	0128
008	INDEX INDICATOR	GPOS	0137
008	DATE 1	GPOS	0127
008	MODIFIED RECORD CODE	GPOS	0142
008	DATE ENTERED ON FILE	GPOS	0125
008	TYPE OF PUBLICATION DATE CODE	GPOS	0126
008	ILLUSTRATION CODE	GPOS	0130
008	CATALOGING SOURCE CODE	GPOS	0143
008	INTELLECTUAL LEVEL CODE	GPOS	0131
008	FORM OF REPRODUCTION CODE	GPOS	0132
008	NATURE OF CONTENTS CODE	GPOS	0133
008	CONFERENCE PUBLICATION INDICATOR	GPOS	0135
008	FESTSCHRIFT INDICATOR	GPOS	0136
008	MAIN ENTRY IN BODY OF ENTRY INDICATOR	GPOS	0138
008	FICTION INDICATOR	GPOS	0139
008	BIOGRAPHY CODE	GPOS	0140
008	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE	GPOS	0129
008	LANGUAGE CODE	GPOS	0141
008	GOVERNMENT PUBLICATION CODE	GPOS	0134
010	TIC Item Identification Number	DORS	0002
010	LC CARD NUMBER	GPOS	0144
020	Type of Item	DORS	0003
020	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)	GPOS	0145
023	Analytic Subsidiary Subject Code-Block 43	NASA	0244
023	Analytic Subsidiary-Block 44/Number-Block 42	NASA	0246
024	Analytic Primary-Block 44/Number-Block 42	NASA	0242
027	STANDARD TECHNICAL REPORT NUMBER (STRN)	GPOS	0146
030	Classification	DORS	0004
034	CODED MATHEMATICAL DATA	GPOS	0147
037	STOCK NUMBER	GPOS	0148
040	Literary Indicator	DORS	0005
040	CATALOGING SOURCE	GPOS	0149
041	LANGUAGE CODE	GPOS	0150
043	GEOGRAPHIC AREA CODES	GPOS	0151
050	LIBRARY OF CONGRESS CALL NUMBER	GPOS	0152
051	COPY, ISSUE, OFFPRINT STATEMENT	GPOS	0153
052	GEOGRAPHIC CLASSIFICATION CODE	GPOS	0154
060	NATIONAL LIBRARY OF MEDICINE CALL NUMBER	GPOS	0155
070	Personal Author (A)	DORS	0006
070	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER	GPOS	0156
074	Financial Support-Block 29	NASA	0230
074	GPO ITEM NUMBER	GPOS	0157
076	Hardcopy Availability Code-Block 27	NASA	0226
077	Microfiche Availability Code-Block 26	NASA	0227
078	Title Security Classification-Block 34	NASA	0235
082	DEWEY DECIMAL CLASSIFICATION NUMBER	GPOS	0158
084	Document Class-Block 28	NASA	0229
086	Report Class (A)-Block 21	NASA	0220
086	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER	GPOS	0159
087	Translated Document-Block 18	NASA	0217
088	Copyrighted (Y or N)-Block 19	NASA	0218

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EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
088	REPORT NUMBER	GPOS	0100
089	Incomplete List of Authors-Block 15	NASA	0212
090	NTIS Hardcopy Available-Block 37	NASA	0238
091	NTIS Microfiche Available-Block 37	NASA	0239
092	Incomplete List of Contracts-Block 10	NASA	0209
093	Report Class (R)-Block 21	NASA	0221
095	Publication Date-Block 02	NASA	0202
098	Pagination (Page Count)-Block 14	NASA	0211
099	Document Language-Block 16	NASA	0213
100	MAIN ENTRY - PERSONAL NAME	GPOS	0101
101	Document Security Classification-Block 33	NASA	0234
106	Access Level-NASA-Block 30	NASA	0231
110	Classification	STIS	0301
110	Primary Title (R)	DOKS	0007
110	Report Classification	DTIC	0061
110	MAIN ENTRY - CORPORATE NAME	GPOS	0102
111	MAIN ENTRY - CONFERENCE OR MEETING	GPOS	0103
115	Issue Number-Block 07	NASA	0206
116	Subject Fields-Block 40	NASA	0242
117	Country of Finance-Block 17	NASA	0214
118	Country of Publication-Block 17	NASA	0216
119	Country of Origin-Block 17	NASA	0215
120	Downgrading - Declassification Group-Block 35	NASA	0236
120	Regrade Category / Reclassification Code	DTIC	0074
121	Special Handling-Block 36	NASA	0237
130	Availability Note	NTIS	0303
130	Receipt Type-Block 08	NASA	0207
130	Access Level-Other Government-Block 31	NASA	0232
130	Access Level-Non-Government-Block 32	NASA	0233
130	Limitations (Alpha) / Distribution Availability Statements	DTIC	0063
130	MAIN ENTRY - UNIFORM TITLE HEADING	GPOS	0104
131	Abstract Preparation-Block 38	NASA	0240
140	DDC Limitation Code	NTIS	0311
140	Limitation Availability Codes / Distribution Availability Codes	DTIC	0075
142	Secondary Source Code-@ssc	NASA	0254
142	Corporate Source-Block 03	NASA	0203
143	Corporate Source Supplement-@css	NASA	0253
145	Title (Unclassified)-@ntl	NASA	0251
147	Unclassified Foreign Title-@uft	NASA	0256
148	Title Supplementary-@tls	NASA	0455
149	Title Extension-@trt	NASA	0275
150	Author-@aut	NASA	0450
150	Primary Report Number	DOKS	0008
153	Personal Author Type-@pat	NASA	0257
155	Personal Author Affiliation-@paa	NASA	0250
156	Corporate Source Monitor-@csm	NASA	0272
157	Place of Publication-@pop	NASA	0206
158	Publisher-@pub	NASA	0201
159	Primary Note-@prn	NASA	0259
160	Journal Volume and Issue Codes	NTIS	0236
160	Reprint Note-@rpr	NASA	0202
161	Translation Note-@tra	NASA	0203
162	Other Announcements-@ota	NASA	0207

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EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
163	References-Block 41	NASA	0293
164	Number of Volumes in Set-evol	NASA	0273
170	Report Numbers	NTIS	0298
170	Source_Series / Report Number	DTIC	0054
170	Special Publication Notes-espb	NASA	0266
172	Language Note-alga	NASA	0264
173	Supplement Note-esup	NASA	0265
174	Presentation Note-eprs	NASA	0265
177	Miscellaneous Note-aocn	NASA	0269
179	Contract/Grant Number-acat	NASA	0249
180	Monitor Agency Acronym	NTIS	0299
180	Monitor Agency Number	NTIS	0300
180	Monitor Acronym	DTIC	0059
180	Monitor Series	DTIC	0060
184	Supporting Research and Technology Code-asrt	NASA	0271
185	Report_Number(s)-arpa	NASA	0248
190	Serials	NTIS	0312
196	Serial Number / Source Series	DTIC	0076
191	Sales Agency and Pricing-asap	NASA	0273
197	Major Subject Terms-dajs	NASA	0276
198	Minor Subject Terms-dans	NASA	0277
200	Project Numbers	NTIS	0297
200	RDT&E Project Number	DTIC	0057
200	Subject Groups-acac	NASA	0276
202	Distribution Control and Analysis File (DCAF)-Block 45	NASA	0247
210	Task Numbers	NTIS	0296
210	Secondary Report Number	DGES	0009
210	RDT&E Task Number	DTIC	0058
220	Title	NTIS	0286
220	Unclassified Title	DTIC	0047
230	Title Classification	DTIC	0049
239	Analytic Note-dann	NASA	0276
240	Item Description(Set)	NTIS	0267
240	Contract Number	DGES	0010
240	Classified Title	DTIC	0046
240	Abstract Author-daba	NASA	0266
240	UNIFORM TITLE	GPOS	0165
241	Form of Original Input-afoi	NASA	0252
241	ROMANIZED TITLE	GPOS	0166
245	Receipt Date-Block 13	NASA	0210
245	TITLE STATEMENT	GPOS	0167
249	Abstract-dabs	NASA	0279
250	EDITION STATEMENT	GPOS	0168
255	MATHEMATICAL DATA AREA	GPOS	0169
260	IMPRINT STATEMENT (AACR2)	GPOS	0170
265	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS	GPOS	0171
270	Title Annotation	NTIS	0310
270	Annotation / Index Annotation	DTIC	0072
280	Personal Author(a)	NTIS	0290
280	Personal Author	DTIC	0051
290	TRAC number	DGES	0011
300	Corporate Source	NTIS	0285
300	Corporate Author	DTIC	0100

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EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
300	PHYSICAL DESCRIPTION (AACR2)	GPOS	0172
302	ITEM COUNT/PAGE COUNT	GPOS	0173
310	Corporate Author Code	NTIS	0313
310	Source Code	DTIC	0077
320	Contract or Grant Numbers	NTIS	0295
320	Contract or Grant Number	DTIC	0055
330	Contract or Grant Numbers	NTIS	0296
330	Contract or Grant Number	DTIC	0056
350	NTIS Subject Category Codes	NTIS	0282
350	DoD-modified COSATI Subject Field and Group Codes	DTIC	0081
370	Date	DOES	0012
370	Descriptor Classification	DTIC	0066
380	Descriptors	NTIS	0304
380	Posting Terms / Descriptors	DTIC	0064
390	Pages (#)	DOES	0013
400	Descriptors	NTIS	0305
400	Subdistribution Category	DOES	0014
400	Posting Terms / Descriptors	DTIC	0065
420	Language	DOES	0015
430	Highlights Notes	NTIS	0307
430	Availability-Price	DOES	0016
430	Identifiers and Open-ended Terms Classification	DTIC	0088
440	Identifiers	NTIS	0306
440	Drop Note	DOES	0017
440	Identifiers and Open-ended Terms	DTIC	0067
440	SERIES STATEMENT - TITLE (TRACED)	GPOS	0174
450	Conference Title	DOES	0018
460	Conference Place	DOES	0019
470	Conference Date	DOES	0020
480	Report Date	NTIS	0291
480	Report date	DTIC	0052
490	SERIES UNTRACED OR TRACED DIFFERENTLY	GPOS	0175
500	GENERAL NOTE	GPOS	0176
501	"WITH" NOTE	GPOS	0177
502	DISSERTATION NOTE	GPOS	0178
504	BIBLIOGRAPHY/DISCOGRAPHY NOTE	GPOS	0179
505	CONTENTS NOTE (FORMATTED)	GPOS	0180
506	LIMITED USE/RESTRICTIONS NOTE	GPOS	0181
510	Distribution Category	DOES	0021
513	TYPE OF REPORT AND PERIOD COVERED	GPOS	0182
520	Pagination	NTIS	0292
520	Report Origin	DOES	0022
520	Pagination	DTIC	0053
520	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE	GPOS	0183
530	NTIS Prices	NTIS	0294
530	File Selected For	DOES	0023
530	NTIS Price	DTIC	0045
533	PHOTOREPRODUCTION NOTE	GPOS	0184
536	FUNDING INFORMATION NOTE	GPOS	0185
540	Title Note	NTIS	0289
540	Subject Categories	DOES	0024
540	Descriptive Note	DTIC	0050
550	Source of Bibliographic Information	DOES	0025

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EXTERNAL TAG	DATA ELEMENT NAME	SUBMITTING AGENCY	PAGE NUMBER
560	Country of Affiliation	DOES	0026
570	Country of Publication	DOES	0027
580	Supplementary Notes	NTIS	0302
580	Supplementary Note	DTIC	0062
590	INIS Temporary Record Number	DOES	0023
590	LOCAL NOTE	GPOS	0100
600	INIS Type	DOES	0029
600	Abstract Classification	DTIC	0070
600	SUBJECT ADDED ENTRY - PERSONAL NAME	GPOS	0187
610	INIS Categories	DOES	0030
610	SUBJECT ADDED ENTRY - CORPORATE NAME	GPOS	0188
611	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0189
620	Abstract	NTIS	0306
620	Title Augmentation	DOES	0031
620	Abstract	DTIC	0069
630	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0190
640	NTIS Note	DOES	0032
650	SUBJECT ADDED ENTRY - TOPICAL HEADING	GPOS	0191
651	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME	GPOS	0192
653	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING	GPOS	0193
700	Corporate Code (N)	DOES	0033
700	ADDED ENTRY - PERSONAL NAME	GPOS	0194
710	Corporate Author (N)	DOES	0034
710	ADDED ENTRY - CORPORATE NAME	GPOS	0195
711	ADDED ENTRY - CONFERENCE OR MEETING	GPOS	0196
730	ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0197
740	ADDED ENTRY - TITLE TRACED DIFFERENTLY	GPOS	0198
750	TIC Utilization	DOES	0035
800	NTIS In-House Control Codes	NTIS	0283
800	Subject Descriptor Count	DOES	0037
800	Machine Record Classification	DTIC	0044
801	Subject Descriptors, General	DOES	0038
802	Subject Descriptors, Splits	DOES	0036
803	Descriptor Opposed Terms	DOES	0039
810	Inventory Balance	NTIS	0369
810	INIS Proposed Descriptors	DOES	0040
810	Initial Inventory / Inventory	DTIC	0071
810	SERIES ADDED ENTRY - CORPORATE NAME/TITLE	GPOS	0199
820	Special Codes	DTIC	0073
830	Document Location Code	NTIS	0314
830	Document Location	DTIC	0078
830	SERIES ADDED ENTRY - UNIFORM TITLE HEADING	GPOS	0200
840	Classification Authority	DTIC	0079
850	Declassification Date or Event	DTIC	0080
860	Downgrade to Confidential Date or Event	DTIC	0081
900	Declassification Extension Authority	DTIC	0087
910	Declassification Review Date	DTIC	0086
920	Classification Extension Reason	DTIC	0039
950	Abstract	DOES	0041

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	224	23	MICROFICHE CODE PREFIX - BLOCK 23
GPOS	109	23.	UNDEFINED CHARACTER, LEADER, BYTE 23.
NASA	225	24	MICROFICHE CODE SUFFIX - BLOCK 24
NASA	226	25	MICROFICHE SOURCE ORIGIN - BLOCK 25
NASA	227	26	MICROFICHE AVAILABILITY CODE - BLOCK 26
NASA	228	27	HARDCOPY AVAILABILITY CODE - BLOCK 27
NASA	229	28	DOCUMENT CLASS - BLOCK 28
NASA	230	29	FINANCIAL SUPPORT - BLOCK 29
GPOS	117	3.	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.
NASA	231	30	ACCESS LEVEL - NASA - BLOCK 30
NASA	232	31	ACCESS LEVEL - OTHER GOVERNMENT - BLOCK 31
NASA	233	32	ACCESS LEVEL - NON-GOVERNMENT - BLOCK 32
NASA	234	33	DOCUMENT SECURITY CLASSIFICATION - BLOCK 33
NASA	235	34	TITLE SECURITY CLASSIFICATION - BLOCK 34
NASA	236	35	DOWNGRADING - DECLASSIFICATION GROUP - BLOCK 35
NASA	237	36	SPECIAL HANDLING - BLOCK 36
NASA	238	37	NTIS HARDCOPY AVAILABLE - BLOCK 37
NASA	239	37	NTIS MICROFICHE AVAILABLE - BLOCK 37
NASA	240	38	ABSTRACT PREPARATION - BLOCK 38
NASA	241	39	ABSTRACT QUALIFICATION - BLOCK 39
GPOS	118	4.	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.
NASA	242	40	SUBJECT FIELDS - BLOCK 40
NASA	243	41	REFERENCES - BLOCK 41
NASA	245	42	ANALYTIC PRIMARY - BLOCK 44/NUMBER - BLOCK 42
NASA	246	42	ANALYTIC SUBSIDIARY - BLOCK 44/NUMBER - BLOCK 42
NASA	244	43	ANALYTIC SUBSIDIARY SUBJECT CODE - BLOCK 43
NASA	245	44	ANALYTIC PRIMARY - BLOCK 44/NUMBER - BLOCK 42
NASA	246	44	ANALYTIC SUBSIDIARY - BLOCK 44/NUMBER - BLOCK 42
NASA	247	45	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 45
GPOS	119	5-8.	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.
GPOS	094	5.	RECORD STATUS, LEADER, BYTE 5.
GPOS	095	6-9.	LEGEND, LEADER, BYTES 6-9.
GPOS	096	6.	TYPE OF RECORD, LEADER, BYTE 6.
GPOS	097	7.	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.
GPOS	098	8-9.	BLANKS, LEADER, BYTES 8-9.
GPOS	120	9.	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.
NASA	280	ƏABA	ABSTRACT AUTHOR - ƏABA
NASA	279	ƏABS	ABSTRACT - ƏABS
NASA	278	ƏANN	ANALYTIC NOTE - ƏANN
NASA	250	ƏAUT	AUTHOR - ƏAUT
NASA	249	ƏCNT	CONTRACT/GRANT NUMBER - ƏCNT
NASA	274	ƏCSC	SUBJECT GROUPS - ƏCSC
NASA	272	ƏCSM	CORPORATE SOURCE MONITOR - ƏCSM
NASA	253	ƏCSS	CORPORATE SOURCE SUPPLEMENT - ƏCSS

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	252	ƏFOI	FORM OF ORIGINAL INPUT - ƏFOI
NASA	264	ƏLGN	LANGUAGE NOTE - ƏLGN
NASA	269	ƏMCN	MISCELLANEOUS NOTE - ƏMCN
NASA	276	ƏMJS	MAJOR SUBJECT TERMS - ƏMJS
NASA	277	ƏMNS	MINOR SUBJECT TERMS - ƏMNS
NASA	267	ƏOTA	OTHER ANNOUNCEMENTS - ƏOTA
NASA	258	ƏPAA	PERSONAL AUTHOR AFFILIATION - ƏPAA
NASA	257	ƏPAY	PERSONAL AUTHOR.TYPE - ƏPAY
NASA	260	ƏPOP	PLACE OF PUBLICATION - ƏPCP
NASA	259	ƏPRM	PRIMARY NOTE - ƏPRM
NASA	265	ƏPRS	PRESENTATION NOTE - ƏPRS
NASA	261	ƏPUB	PUBLISHER - ƏPUB
NASA	298	ƏRPN	REPORT NUMBER(S) - ƏRPN
NASA	262	ƏRPR	REPRINT NOTE - ƏRPR
NASA	273	ƏSAP	SALES AGENCY AND PRICING - ƏSAP
NASA	266	ƏSPB	SPECIAL PUBLICATION NOTES - ƏSPB
NASA	271	ƏSRY	SUPPORTING RESEARCH AND TECHNOLOGY CODE & ƏSRT
NASA	269	ƏSSC	SECONDARY SOURCE CODE - ƏSSC
NASA	268	ƏSUP	SUPPLEMENT NOTE - ƏSUP
NASA	255	ƏTLS	TITLE SUPPLEMENTARY - ƏTLS
NASA	263	ƏTRA	TRANSLATION NOTE - ƏTRA
NASA	275	ƏTXT	TITLE EXTENSION - ƏTXT
NASA	256	ƏUFT	UNCLASSIFIED FOREIGN TITLE - ƏUFT
NASA	251	ƏUTL	TITLE (UNCLASSIFIED) - ƏUTL
NASA	270	ƏVOL	NUMBER OF VOLUMES IN SET - ƏVOL
GPOS	170	AACR2	IMPRINT STATEMENT (AACR2)
GPOS	172	AACR2	PHYSICAL DESCRIPTION (AACR2)
DDES	041	ABSTRACT	ABSTRACT
DTIC	069	ABSTRACT	ABSTRACT
NTIS	308	ABSTRACT	ABSTRACT
NASA	279	ABSTRACT	ABSTRACT - ƏARS
NASA	280	ABSTRACY	ABSTRACT AUTHOR - ƏABA
DTIC	070	ABSTRACT	ABSTRACT CLASSIFICATION
NASA	240	ABSTRACT	ABSTRACT PREPARATION - BLOCK 38
NASA	241	ABSTRACT	ABSTRACT QUALIFICATION - BLOCK 39
GPOS	183	ABSTRACY,	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE
NASA	231	ACCESS	ACCESS LEVEL - NASA - BLOCK 30
NASA	233	ACCESS	ACCESS LEVEL - NON-GOVERNMENT - BLOCK 32
NASA	232	ACCESS	ACCESS LEVEL - OTHER GOVERNMENT - BLOCK 31
DTIC	092	ACCESSION	ACCESSION NUMBER
NTIS	281	ACCESSION	ACCESSION NUMBER
GPOS	171	ACQUISITION	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS
DTIC	069	ACRONYM	MONITOR ACRONYM
NTIS	299	ACRONYM	MONITOR AGENCY ACRONYM

ORG	PAGE	KEYWORD	DATA ELEMENT
GPOS	196	ADDED	ADDED ENTRY - CONFERENCE OR MEETING
GPOS	195	ADDED	ADDED ENTRY - CORPORATE NAME
GPOS	194	ADDED	ADDED ENTRY - PERSONAL NAME
GPOS	198	ADDED	ADDED ENTRY - TITLE TRACED DIFFERENTLY
GPOS	197	ADDED	ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	199	ADDED	SERIES ADDED ENTRY - CORPORATE NAME/TITLE
GPOS	200	ADDED	SERIES ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	189	ADDED	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING
GPOS	188	ADDED	SUBJECT ADDED ENTRY - CORPORATE NAME
GPOS	192	ADDED	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME
GPOS	187	ADDED	SUBJECT ADDED ENTRY - PERSONAL NAME
GPOS	191	ADDED	SUBJECT ADDED ENTRY - TOPICAL HEADING
GPOS	193	ADDED	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING
GPOS	190	ADDED	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	101	ADDRESS	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.
GPOS	171	ADDRESS	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS
DOES	026	AFFILIATION	COUNTRY OF AFFILIATION
NASA	258	AFFILIATION	PERSONAL AUTHOR AFFILIATION - GPAA
NTIS	299	AGENCY	MONITOR AGENCY ACRONYM
NTIS	300	AGENCY	MONITOR AGENCY NUMBER
NASA	273	AGENCY	SALES AGENCY AND PRICING - GSAP
GPOS	156	AGRICULTURAL	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER
DTIC	063	ALPHA	LIMITATIONS (ALPHA) - DISTRIBUTION AVAILABILITY STATEMENTS
NASA	247	ANALYSIS	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 46
NASA	278	ANALYTIC	ANALYTIC NOTE - BANN
NASA	245	ANALYTIC	ANALYTIC PRIMARY - BLOCK 44/NUMBER - BLOCK 42
NASA	246	ANALYTIC	ANALYTIC SUBSIDIARY - BLOCK 44/NUMBER - BLOCK 42
NASA	244	ANALYTIC	ANALYTIC SUBSIDIARY SUBJECT CODE - BLOCK 43
DTIC	072	ANNOTATION	ANNOTATION/INDEX ANNOTATION
DTIC	072	ANNOTATION	ANNOTATION/INDEX ANNOTATION
NTIS	310	ANNOTATION	TITLE ANNOTATION
NASA	267	ANNOUNCEMENTS	OTHER ANNOUNCEMENTS - GOTA
GPOS	151	AREA	GEOGRAPHIC AREA CODES
GPOS	169	AREA	MATHEMATICAL DATA AREA
GPOS	116	ASPECT,	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.
DOES	031	AUGMENTATION	TITLE AUGMENTATION
NASA	280	AUTHOR	ABSTRACT AUTHOR - BABA
NASA	250	AUTHOR	AUTHOR - BAUT
DTIC	046	AUTHOR	CORPORATE AUTHOR
DOES	034	AUTHOR	CORPORATE AUTHOR (M)
NTIS	313	AUTHOR	CORPORATE AUTHOR CODE
DTIC	051	AUTHOR	PERSONAL AUTHOR
DOES	006	AUTHOR	PERSONAL AUTHOR (M)
NASA	258	AUTHOR	PERSONAL AUTHOR AFFILIATION - GPAA

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	257	AUTHOR	PERSONAL AUTHOR TYPE - UPAT
NTIS	290	AUTHOR	PERSONAL AUTHOR(S)
DTIC	091	AUTHORITY	AUTHORITY FOR CLASSIFICATION FIELD
DTIC	079	AUTHORITY	CLASSIFICATION AUTHORITY
DTIC	087	AUTHORITY	DECLASSIFICATION EXTENSION AUTHORITY
NASA	222	AUTHORIZATION	MICROFICHE REPRODUCTION AUTHORIZATION - BLOCK 22
NASA	219	AUTHORIZED	REPRODUCTION AUTHORIZED (Y OR N) - BLOCK 20
NASA	212	AUTHORS	INCOMPLETE LIST OF AUTHORS - BLOCK 15
DOES	016	AVAILABILITY	AVAILABILITY - PRICE
NTIS	303	AVAILABILITY	AVAILABILITY NOTE
NASA	228	AVAILABILITY	HARDCOPY AVAILABILITY CODE - BLOCK 27
DTIC	075	AVAILABILITY	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES
DTIC	075	AVAILABILITY	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES
DTIC	063	AVAILABILITY	LIMITATIONS.(ALPHA) - DISTRIBUTION AVAILABILITY STATEMENTS
NASA	227	AVAILABILITY	MICROFICHE AVAILABILITY CODE - BLOCK 26
NASA	238	AVAILABLE	NTIS HARDCOPY AVAILABLE - BLOCK 37
NASA	239	AVAILABLE	NTIS MICROFICHE AVAILABLE - BLOCK 37
NTIS	309	BALANCE	INVENTORY BALANCE
GPOS	101	BASE	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.
GPOS	123	BASE	BASE OF FILM (MICROFORMS); PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.
GPOS	097	BIBLIOGRAPHIC	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.
DOES	025	BIBLIOGRAPHIC	SOURCE OF BIBLIOGRAPHIC INFORMATION
GPOS	179	BIBLIOGRAPHY	BIBLIOGRAPHY/DISCOGRAPHY NOTE
GPOS	140	BIOGRAPHY	BIOGRAPHY CODE
GPOS	104	BLANK	BLANK (LEADER, BYTE 19)
GPOS	098	BLANKS,	BLANKS, LEADER, BYTES 8-9.
GPOS	138	BODY	MAIN ENTRY IN BODY OF ENTRY INDICATOR
GPOS	145	BOOK	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)
GPOS	152	CALL	LIBRARY OF CONGRESS CALL NUMBER
GPOS	156	CALL	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER
GPOS	155	CALL	NATIONAL LIBRARY OF MEDICINE CALL NUMBER
GPOS	144	CARD	LC CARD NUMBER
GPOS	149	CATALOGING	CATALOGING SOURCE
GPOS	143	CATALOGING	CATALOGING SOURCE CODE
GPOS	103	CATALOGING	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.
DOES	030	CATEGORIES	INIS CATEGORIES
DOES	024	CATEGORIES	SUBJECT CATEGORIES
DDES	021	CATEGORY	DISTRIBUTION CATEGORY
NTIS	282	CATEGORY	NTIS SUBJECT CATEGORY CODES
DTIC	074	CATEGORY	REGRADE CATEGORY/RECLASSIFICATION CODE
DOES	014	CATEGORY	SUBDISTRIBUTION CATEGORY
GPOS	109	CHARACTER,	UNDEFINED CHARACTER, LEADER, BYTE 23.
NASA	229	CLASS	DOCUMENT CLASS - BLOCK 28
NASA	220	CLASS	REPORT CLASS (A) - BLOCK 21

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	221	CLASS	REPORT CLASS (B) - BLOCK 21
DTIC	070	CLASSIFICATION	ABSTRACT CLASSIFICATION
DTIC	093	CLASSIFICATION	AUTHORITY FOR CLASSIFICATION FIELD
DOES	004	CLASSIFICATION	CLASSIFICATION
NTIS	301	CLASSIFICATION	CLASSIFICATION
DTIC	079	CLASSIFICATION	CLASSIFICATION AUTHORITY
DTIC	089	CLASSIFICATION	CLASSIFICATION EXTENSION REASON
DTIC	046	CLASSIFICATION	DESCRIPTOR CLASSIFICATION
GPOS	158	CLASSIFICATION	DEWEY DECIMAL CLASSIFICATION NUMBER
NASA	234	CLASSIFICATION	DOCUMENT SECURITY CLASSIFICATION - BLOCK 33
GPOS	154	CLASSIFICATION	GEOGRAPHIC CLASSIFICATION CODE
GPOS	159	CLASSIFICATION	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER
DTIC	068	CLASSIFICATION	IDENTIFIERS AND OPEN-ENDED TERMS CLASSIFICATION
DTIC	044	CLASSIFICATION	MACHINE RECORD CLASSIFICATION
DTIC	061	CLASSIFICATION	REPORT CLASSIFICATION
DTIC	047	CLASSIFICATION	TITLE CLASSIFICATION
NASA	235	CLASSIFICATION	TITLE SECURITY CLASSIFICATION - BLOCK 34
DTIC	048	CLASSIFIED	CLASSIFIED TITLE
NASA	244	CODE	ANALYTIC SUBSIDIARY SUBJECT CODE - BLOCK 43
GPOS	140	CODE	BIOGRAPHY CODE
GPOS	143	CODE	CATALOGING SOURCE CODE
NTIS	313	CODE	CORPORATE AUTHOR CODE
DOES	033	CODE	CORPORATE CODE (N)
GPOS	124	CODE	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE
NTIS	311	CODE	DDC LIMITATION CODE
NTIS	314	CODE	DOCUMENT LOCATION CODE
GPOS	132	CODE	FORM OF REPRODUCTION CODE
GPOS	154	CODE	GEOGRAPHIC CLASSIFICATION CODE
DTIC	082	CODE	GEOPOLITICAL CODE
GPOS	134	CODE	GOVERNMENT PUBLICATION CODE
NASA	228	CODE	HARDCOPY AVAILABILITY CODE - BLOCK 27
DTIC	085	CODE	IAC DOCUMENT TYPE AND LOCATION CODE
GPOS	130	CODE	ILLUSTRATION CODE
GPOS	131	CODE	INTELLECTUAL LEVEL CODE
GPOS	141	CODE	LANGUAGE CODE
GPOS	150	CODE	LANGUAGE CODE
NASA	227	CODE	MICROFICHE AVAILABILITY CODE - BLOCK 26
NASA	224	CODE	MICROFICHE CODE PREFIX - BLOCK 23
NASA	225	CODE	MICROFICHE CODE SUFFIX - BLOCK 24
GPOS	142	CODE	MODIFIED RECORD CODE
GPOS	133	CODE	NATURE OF CONTENTS CODE
DTIC	074	CODE	REGRADE CATEGORY/RECLASSIFICATION CODE
NASA	254	CODE	SECONDARY SOURCE CODE - BSSC
DTIC	077	CODE	SOURCE CODE

ORG	PAGE	KEYWORD	DATA ELEMENT
GPOS	100	CODE	SUBFIELD CODE COUNT, LEADER, BYTE 11.
NASA	271	CODE	SUPPORTING RESEARCH AND TECHNOLOGY CODE - SSRT
OTIC	083	CODE	TYPE CODE
GPOS	126	CODE	TYPE OF PUBLICATION DATE CODE
GPOS	147	CODED	CODED MATHEMATICAL DATA
DTIC	043	CODES	DOD-MODIFIED COSATI SUBJECT FIELD AND GROUP CODES
GPOS	151	CODES	GEOGRAPHIC AREA CODES
NTIS	288	CODES	JOURNAL VOLUME AND ISSUE CODES
DTIC	075	CODES	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES
DTIC	075	CODES	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES
NTIS	283	CODES	NTIS IN-HOUSE CONTROL CODES
NTIS	282	CODES	NTIS SUBJECT CATEGORY CODES
DTIC	073	CODES	SPECIAL CODES
GPOS	130	COLOR,	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.
GPOS	196	CONFERENCE	ADDED ENTRY - CONFERENCE OR MEETING
DOES	020	CONFERENCE	CONFERENCE DATE
DOES	019	CONFERENCE	CONFERENCE PLACE
GPOS	135	CONFERENCE	CONFERENCE PUBLICATION INDICATOR
DOES	018	CONFERENCE	CONFERENCE TITLE
GPOS	163	CONFERENCE	MAIN ENTRY - CONFERENCE OR MEETING
GPOS	139	CONFERENCE	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING
DTIC	081	CONFIDENTIAL	DOWNGRADE TO CONFIDENTIAL DAT OR EVENT
GPOS	152	CONGRESS	LIBRARY OF CONGRESS CALL NUMBER
GPOS	180	CONTENTS	CONTENTS NOTE (FORMATTED)
GPOS	133	CONTENTS	NATURE OF CONTENTS CODE
DOES	010	CONTRACT	CONTRACT NUMBER
DTIC	055	CONTRACT	CONTRACT OR GRANT NUMBER
OTIC	056	CONTRACT	CONTRACT OR GRANT NUMBER
NTIS	295	CONTRACT	CONTRACT OR GRANT NUMBERS
NTIS	296	CONTRACT	CONTRACT OR GRANT NUMBERS
NASA	249	CONTRACT	CONTRACT/GRANT NUMBER - 3CNT
NASA	209	CONTRACTS	INCOMPLETE LIST OF CONTRACTS - BLOCK 10
GPOS	111	CONTROL	CONTROL NUMBER
NASA	247	CONTROL	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 45
NTIS	283	CONTROL	NTIS IN-HOUSE CONTROL CODES
GPOS	153	COPY,	COPY, ISSUE, OFFPRINT STATEMENT
NASA	223	COPYRIGHT	COPYRIGHT OVERRIDE - BLOCK 22
NASA	218	COPYRIGHTED	COPYRIGHTED (Y OR N) - BLOCK 19
GPOS	195	CORPORATE	ADDED ENTRY - CORPORATE NAME
OTIC	046	CORPORATE	CORPORATE AUTHOR
DOES	034	CORPORATE	CORPORATE AUTHOR (H)
NTIS	313	CORPORATE	CORPORATE AUTHOR CODE
DOES	033	CORPORATE	CORPORATE CODE (H)

ORG	PAGE	KEYWORD	DATA ELEMENT
NTIS	285	CORPORATE	CORPORATE SOURCE
NASA	203	CORPORATE	CORPORATE SOURCE - BLOCK 03
NASA	272	CORPORATE	CORPORATE SOURCE MONITOR - 2CSM
NASA	253	CORPORATE	CORPORATE SOURCE SUPPLEMENT - 2CSS
GPOS	162	CORPORATE	MAIN ENTRY - CORPORATE NAME
GPOS	199	CORPORATE	SERIES ADDED ENTRY - CORPORATE NAME/TITLE
GPOS	188	CORPORATE	SUBJECT ADDED ENTRY - CORPORATE NAME
OTIC	043	COSATI	DOD-MODIFIED COSATI SUBJECT FIELD AND GROUP CODES
GPOS	173	COUNT	ITEM COUNT/PAGE COUNT
GPOS	173	COUNT	ITEM COUNT/PAGE COUNT
NASA	211	COUNT	PAGINATION (PAGE COUNT) - BLOCK 14
DOES	037	COUNT	SUBJECT DESCRIPTOR COUNT
GPOS	099	COUNT,	INDICATOR COUNT, LEADER, BYTE 10,
GPOS	100	COUNT,	SUBFIELD CODE COUNT, LEADER, BYTE 11.
DOES	026	COUNTRY	COUNTRY OF AFFILIATION
NASA	214	COUNTRY	COUNTRY OF FINANCE - BLOCK 17
NASA	215	COUNTRY	COUNTRY OF ORIGIN - BLOCK 17
DOES	027	COUNTRY	COUNTRY OF PUBLICATION
NASA	216	COUNTRY	COUNTRY OF PUBLICATION - BLOCK 17
GPOS	129	COUNTRY	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE
GPOS	183	COVERED	TYPE OF REPORT AND PERIOD COVERED
GPOS	147	DATA	CODED MATHEMATICAL DATA
GPOS	1_4	DATA	FIXED LENGTH DATA ELEMENTS
GPOS	169	DATA	MATHEMATICAL DATA AREA
GPOS	101	DATA,	BASE ADDRESS OF DATA, LEADER, BYTES 12-16.
DOES	020	DATE	CONFERENCE DATE
DOES	012	DATE	DATE
GPOS	127	DATE	DATE 1
GPOS	128	DATE	DATE 2
GPOS	112	DATE	DATE AND TIME OF LATEST TRANSACTION
GPOS	125	DATE	DATE ENTERED ON FILE
OTIC	060	DATE	DECLASSIFICATION DATE OR EVENT
OTIC	088	DATE	DECLASSIFICATION REVIEW DATE
OTIC	081	DATE	DOWNGRADE TO CONFIDENTIAL DATE OR EVENT
NASA	202	DATE	PUBLICATION DATE - BLOCK 02
NASA	210	DATE	RECEIPT DATE - BLOCK 13
OTIC	052	DATE	REPORT DATE
NTIS	291	DATE	REPORT DATE
GPOS	126	DATE	TYPE OF PUBLICATION DATE CODE
NASA	247	DCAF	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 45
NTIS	311	DDC	DDC LIMITATION CODE
GPOS	158	DECIMAL	DEWEY DECIMAL CLASSIFICATION NUMBER
OTIC	080	DECLASSIFICATION	DECLASSIFICATION DATE OR EVENT
OTIC	087	DECLASSIFICATION	DECLASSIFICATION EXTENSION AUTHORITY
OTIC	088	DECLASSIFICATION	DECLASSIFICATION REVIEW DATE

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	236	DECLASSIFICATION	DOWNGRADING - DECLASSIFICATION GROUP - BLOCK 35
GPOS	123	DESCRIPTION	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12,
GPOS	120	DESCRIPTION	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9,
GPOS	118	DESCRIPTION	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4,
GPOS	121	DESCRIPTION	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10,
GPOS	114	DESCRIPTION	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0,
GPOS	122	DESCRIPTION	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11,
NTIS	287	DESCRIPTION	ITEM DESCRIPTION(SET)
GPOS	116	DESCRIPTION	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2,
GPOS	172	DESCRIPTION	PHYSICAL DESCRIPTION (AACR2)
GPOS	113	DESCRIPTION	PHYSICAL DESCRIPTION FIXED FIELD
GPOS	117	DESCRIPTION	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3,
NTIS	293	DESCRIPTION	PRIMARY DESCRIPTION (SET)
GPOS	119	DESCRIPTION	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8,
GPOS	115	DESCRIPTION	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1,
GPOS	10_	DESCRIPTIVE	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18,
DTIC	050	DESCRIPTIVE	DESCRIPTIVE NOTE
DTIC	066	DESCRIPTOR	DESCRIPTOR CLASSIFICATION
DOES	039	DESCRIPTOR	DESCRIPTOR UPPOSTED TERMS
DOES	037	DESCRIPTOR	SUBJECT DESCRIPTOR COUNT
NTIS	304	DESCRIPTORS	DESCRIPTORS
NTIS	305	DESCRIPTORS	DESCRIPTORS
DOES	040	DESCRIPTORS	INIS PROPOSED DESCRIPTORS
DTIC	064	DESCRIPTORS	POSTING TERMS/DESCRIPTORS
DTIC	065	DESCRIPTORS	POSTING TERMS/DESCRIPTORS
DOES	038	DESCRIPTORS,	SUBJECT DESCRIPTORS, GENERAL
DOES	036	DESCRIPTORS,	SUBJECT DESCRIPTORS, SPLITS
GPOS	114	DESIGNATION	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0,
GPOS	115	DESIGNATION	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1,
GPOS	158	DEWEY	DEWEY DECIMAL CLASSIFICATION NUMBER
GPOS	198	DIFFERENTLY	ADDED ENTRY - TITLE TRACED DIFFERENTLY
GPOS	175	DIFFERENTLY	SERIES UNTRACED OR TRACED DIFFERENTLY
GPOS	118	DIMENSIONS	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4,
GPOS	105	DIRECTORY	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23,
GPOS	110	DIRECTORY	RECORD DIRECTORY
GPOS	179	DISCOGRAPHY	BIBLIOGRAPHY/DISCOGRAPHY NOTE
GPOS	178	DISSERTATION	DISSERTATION NOTE
DOES	021	DISTRIBUTION	DISTRIBUTION CATEGORY
NASA	247	DISTRIBUTION	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 45
DTIC	076	DISTRIBUTION	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES
DTIC	063	DISTRIBUTION	LIMITATIONS (ALPHA) - DISTRIBUTION AVAILABILITY STATEMENTS
NASA	229	DOCUMENT	DOCUMENT CLASS - BLOCK 28
NASA	213	DOCUMENT	DOCUMENT LANGUAGE - BLOCK 16
DTIC	078	DOCUMENT	DOCUMENT LOCATION

ORG	PAGE	KEYWORD	DATA ELEMENT
GPOS	125	FILE	DATE ENTERED ON FILE
NASA	247	FILE	DISTRIBUTION CONTROL AND ANALYSIS FILE (DCAF) - BLOCK 45
NASA	205	FILE	FILE ID - BLOCK 06
DOES	001	FILE	FILE NUMBER
DOES	023	FILE	FILE SELECTED FOR
GPOS	123	FILM	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12,
GPOS	121	FILM	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10.
NASA	214	FINANCE	COUNTRY OF FINANCE - BLOCK 17
NASA	230	FINANCIAL	FINANCIAL SUPPORT - BLOCK 29
GPOS	123	FIXED	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12,
GPOS	120	FIXED	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.
GPOS	118	FIXED	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.
GPOS	121	FIXED	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10.
GPOS	124	FIXED	FIXED LENGTH DATA ELEMENTS
GPOS	114	FIXED	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.
GPOS	122	FIXED	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.
GPOS	116	FIXED	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2,
GPOS	113	FIXED	PHYSICAL DESCRIPTION FIXED FIELD
GPOS	117	FIXED	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3.
GPOS	119	FIXED	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.
GPOS	115	FIXED	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1.
NASA	256	FOREIGN	UNCLASSIFIED FOREIGN TITLE - BUFT
NASA	204	FORM	DOCUMENT RELEASE FORM - BLOCK 04
NASA	252	FORM	FORM OF ORIGINAL INPUT - BFCI
GPOS	132	FORM	FORM OF REPRODUCTION CODE
GPOS	103	FORM,	DESCRIPTIVE CATALOGING FORM, LEADER, BYTE 18.
NASA	208	FORMAL	NASA FORMAL SERIES - BLOCK 09
GPOS	180	FORMATTED	CONTENTS NOTE (FORMATTED)
GPOS	185	FUNDING	FUNDING INFORMATION NOTE
GPOS	114	GENERAL	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.
GPOS	176	GENERAL	GENERAL NOTE
DOES	038	GENERAL	SUBJECT DESCRIPTORS, GENERAL
GPOS	122	GENERATION,	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.
GPOS	151	GEOGRAPHIC	GEOGRAPHIC AREA CODES
GPOS	154	GEOGRAPHIC	GEOGRAPHIC CLASSIFICATION CODE
GPOS	192	GEOGRAPHIC	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME
DTIC	082	GEOPOLITICAL	GEOPOLITICAL CODE
GPOS	114	GMD	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.
NASA	232	GOVERNMENT	ACCESS LEVEL - OTHER GOVERNMENT - BLOCK 31
GPOS	159	GOVERNMENT	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER
GPOS	134	GOVERNMENT	GOVERNMENT PUBLICATION CODE
GPOS	157	GPO	GPO ITEM NUMBER
DTIC	055	GRANT	CONTRACT OR GRANT NUMBER
DTIC	056	GRANT	CONTRACT OR GRANT NUMBER

ORG	PAGE	KEYWORD	DATA ELEMENT
NTIS	295	GRANT	CONTRACT OR GRANT NUMBERS
NTIS	296	GRANT	CONTRACT OR GRANT NUMBERS
NASA	249	GRANT	CONTRACT/GRANT NUMBER - aCHT
OTIC	043	GROUP	DOD-MODIFIED COSATI SUBJECT FIELD AND GROUP CODES
NASA	236	GROUP	DOWNGRADING - DECLASSIFICATION GROUP - BLOCK 35
NASA	274	GROUPS	SUBJECT GROUPS - aCSC
NASA	237	HANDLING	SPECIAL HANDLING - BLOCK 36
NASA	228	HARDCOPY	HARDCOPY AVAILABILITY CODE - BLOCK 27
NASA	238	HARDCOPY	NTIS HARDCOPY AVAILABLE - BLOCK 37
GPOS	197	HEADING	ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	164	HEADING	MAIN ENTRY - UNIFORM TITLE HEADING
GPOS	200	HEADING	SERIES ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	191	HEADING	SUBJECT ADDED ENTRY - TOPICAL HEADING
GPOS	193	HEADING	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING
GPOS	190	HEADING	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING
NTIS	307	HIGHLIGHTS	HIGHLIGHTS NOTES
OTIC	090	HOLDINGS	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
OTIC	085	IAC	IAC DOCUMENT TYPE AND LOCATION CODE
OTIC	084	IAC	IAC REPORT NUMBER
OTIC	086	IAC	IAC SUBJECT TERMS
NASA	205	ID	FILE ID - BLOCK 06
DOES	002	IDENTIFICATION	TIC ITEM IDENTIFICATION NUMBER
NTIS	306	IDENTIFIERS	IDENTIFIERS
OTIC	067	IDENTIFIERS	IDENTIFIERS AND OPEN-ENDED TERMS
OTIC	068	IDENTIFIERS	IDENTIFIERS AND OPEN-ENDED TERMS CLASSIFICATION
GPOS	130	ILLUSTRATION	ILLUSTRATION CODE
GPOS	108	IMPLEMENTATION-D	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.
GPOS	170	IMPRINT	IMPRINT STATEMENT (AACR2)
NTIS	283	IN-HOUSE	NTIS IN-HOUSE CONTROL CODES
NASA	212	INCOMPLETE	INCOMPLETE LIST OF AUTHORS - BLOCK 1S
NASA	209	INCOMPLETE	INCOMPLETE LIST OF CONTRACTS - BLOCK 1D
OTIC	072	INDEX	ANNOTATION/INDEX ANNOTATION
GPOS	137	INDEX	INDEX INDICATOR
GPOS	135	INDICATOR	CONFERENCE PUBLICATION INDICATOR
GPOS	136	INDICATOR	FESTSCHRIFT INDICATOR
GPOS	139	INDICATOR	FICTION INDICATOR
GPOS	137	INDICATOR	INDEX INDICATOR
GPOS	099	INDICATOR	INDICATOR COUNT, LEADER, BYTE 10.
OOES	006	INDICATOR	LITERARY INDICATOR
GPOS	138	INDICATOR	MAIN ENTRY IN BODY OF ENTRY INDICATOR
GPOS	185	INFORMATION	FUNDING INFORMATION NOTE
DOES	025	INFORMATION	SOURCE OF BIBLIOGRAPHIC INFORMATION
DOES	030	INIS	INIS CATEGORIES
DOES	040	INIS	INIS PROPOSED DESCRIPTORS

ORG	PAGE	KEYWORD	DATA ELEMENT
DOES	028	INIS	INIS TEMPORARY RECORD NUMBER
DOES	029	INIS	INIS TYPE
DTIC	071	INITIAL	INITIAL INVENTORY/INVENTORY
NASA	252	INPUT	FORM OF ORIGINAL INPUT - BFD;
GPOS	131	INTELLECTUAL	INTELLECTUAL LEVEL CODE
GPOS	145	INTERNATIONAL	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)
DTIC	071	INVENTORY	INITIAL INVENTORY/INVENTORY
DTIC	071	INVENTORY	INITIAL INVENTORY/INVENTORY
NTIS	309	INVENTORY	INVENTORY BALANCE
GPOS	145	ISBN	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)
NASA	206	ISSUE	ISSUE NUMBER - BLOCK 07
NTIS	288	ISSUE	JOURNAL VOLUME AND ISSUE CODES
GPOS	153	ISSUE,	COPY, ISSUE, OFFPRINT STATEMENT
GPOS	157	ITEM	GPO ITEM NUMBER
GPOS	173	ITEM	ITEM COUNT/PAGE COUNT
NTIS	287	ITEM	ITEM DESCRIPTION(SET)
DOES	002	ITEM	TIC ITEM IDENTIFICATION NUMBER
DOES	003	ITEM	TYPE OF ITEM
NTIS	288	JOURNAL	JOURNAL VOLUME AND ISSUE CODES
NASA	213	LANGUAGE	DOCUMENT LANGUAGE - BLOCK 16
DOES	015	LANGUAGE	LANGUAGE
GPOS	141	LANGUAGE	LANGUAGE CODE
GPOS	150	LANGUAGE	LANGUAGE CODE
NASA	264	LANGUAGE	LANGUAGE NOTE - BLGN
GPOS	112	LATEST	DATE AND TIME OF LATEST TRANSACTION
GPOS	144	LC	LC CARD NUMBER
GPOS	095	LEGEND,	LEGEND, LEADER, BYTES 6-9.
GPOS	124	LENGTH	FIXED LENGTH DATA ELEMENTS
GPOS	106	LENGTH	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.
GPOS	107	LENGTH	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.
GPOS	108	LENGTH	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22.
GPOS	093	LENGTH,	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.
GPOS	106	LENGTH-OF-FIELD	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20.
NASA	231	LEVEL	ACCESS LEVEL - NASA - BLOCK 30
NASA	233	LEVEL	ACCESS LEVEL - NON-GOVERNMENT - BLOCK 32
NASA	232	LEVEL	ACCESS LEVEL - OTHER GOVERNMENT - BLOCK 31
GPOS	131	LEVEL	INTELLECTUAL LEVEL CODE
GPOS	097	LEVEL,	BIBLIOGRAPHIC LEVEL, LEADER, BYTE 7.
GPOS	102	LEVEL,	ENCODING LEVEL, LEADER, BYTE 17.
GPOS	152	LIBRARY	LIBRARY OF CONGRESS CALL NUMBER
GPOS	154	LIBRARY	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER
GPOS	155	LIBRARY	NATIONAL LIBRARY OF MEDICINE CALL NUMBER
NTIS	311	LIMITATION	DDC LIMITATION CODE
DTIC	075	LIMITATION	LIMITATION AVAILABILITY CODES/DISTRIBUTION AVAILABILITY CODES

ORG	PAGE	KEYWORD	DATA ELEMENT
DTIC	063	LIMITATIONS	LIMITATIONS (ALPHA) - DISTRIBUTION AVAILABILITY STATEMENTS
GPOS	181	LIMITED	LIMITED USE/RESTRICTIONS NOTE
NASA	212	LIST	INCOMPLETE LIST OF AUTHORS - BLOCK 15
NASA	209	LIST	INCOMPLETE LIST OF CONTRACTS - BLOCK 10
DOES	005	LITERARY	LITERARY INDICATOR
GPOS	186	LOCAL	LOCAL NOTE
DTIC	078	LOCATION	DOCUMENT LOCATION
NTIS	314	LOCATION	DOCUMENT LOCATION CODE
DTIC	085	LOCATION	IAC DOCUMENT TYPE AND LOCATION CODE
GPOS	093	LOGICAL	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.
DUES	034	M	CORPORATE AUTHOR (M)
DOES	033	M	CORPORATE CODE (M)
DOES	013	M	PAGES (M)
DOES	006	M	PERSONAL AUTHOR (M)
DOES	007	M	PRIMARY TITLE (M)
DTIC	044	MACHINE	MACHINE RECORD CLASSIFICATION
GPOS	163	MAIN	MAIN ENTRY - CONFERENCE OR MEETING
GPOS	162	MAIN	MAIN ENTRY - CORPORATE NAME
GPOS	161	MAIN	MAIN ENTRY - PERSONAL NAME
GPOS	164	MAIN	MAIN ENTRY - UNIFORM TITLE HEADING
GPOS	138	MAIN	MAIN ENTRY IN BODY OF ENTRY INDICATOR
NASA	276	MAJOR	MAJOR SUBJECT TERMS - BMJS
GPOS	105	MAP	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.
GPOS	105	MAP	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.
GPOS	114	MATERIAL	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.
GPOS	115	MATERIAL	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1.
GPOS	147	MATHEMATICAL	CODED MATHEMATICAL DATA
GPOS	169	MATHEMATICAL	MATHEMATICAL DATA AREA
GPOS	155	MEDICINE	NATIONAL LIBRARY OF MEDICINE CALL NUMBER
GPOS	176	MEETING	ADDED ENTRY - CONFERENCE OR MEETING
GPOS	163	MEETING	MAIN ENTRY - CONFERENCE OR MEETING
GPOS	189	MEETING	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING
NASA	227	MICROFICHE	MICROFICHE AVAILABILITY CODE - BLOCK 26
NASA	224	MICROFICHE	MICROFICHE CODE PREFIX - BLOCK 23
NASA	225	MICROFICHE	MICROFICHE CODE SUFFIX - BLOCK 24
NASA	222	MICROFICHE	MICROFICHE REPRODUCTION AUTHORIZATION - BLOCK 22
NASA	226	MICROFICHE	MICROFICHE SOURCE ORIGIN - BLOCK 25
NASA	239	MICROFICHE	NTIS MICROFICHE AVAILABLE - BLOCK 37
GPOS	123	MICROFORMS	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12.
GPOS	118	MICROFORMS	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.
GPOS	121	MICROFORMS	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10.
NASA	277	MINOR	MINOR SUBJECT TERMS - BMNS
NASA	269	MISCELLANEOUS	MISCELLANEOUS NOTE - BMCN
GPOS	142	MODIFIED	MODIFIED RECORD CODE

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	272	MONITOR	CORPORATE SOURCE MONITOR - BCSM
OTIC	059	MONITOR	MONITOR ACRONYM
NTIS	299	MONITOR	MONITOR AGENCY ACRONYM
NTIS	300	MONITOR	MONITOR AGENCY NUMBER
OTIC	060	MONITOR	MONITOR SERIES
NASA	218	N	COPYRIGHTED (Y OR N) - BLOCK 19
NASA	219	N	REPRODUCTION AUTHORIZED (Y OR N) - BLOCK 20
GPOS	195	NAME	ADDED ENTRY - CORPORATE NAME
GPOS	194	NAME	ADDED ENTRY - PERSONAL NAME
GPOS	162	NAME	MAIN ENTRY - CORPORATE NAME
GPOS	161	NAME	MAIN ENTRY - PERSONAL NAME
GPOS	199	NAME	SERIES ADDED ENTRY - CORPORATE NAME/TITLE
GPOS	188	NAME	SUBJECT ADDED ENTRY - CORPORATE NAME
GPOS	192	NAME	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME
GPOS	187	NAME	SUBJECT ADDED ENTRY - PERSONAL NAME
NASA	231	NASA	ACCESS LEVEL - NASA - BLOCK 30
NASA	208	NASA	NASA FORMAL SERIES - BLOCK 09
GPOS	156	NATIONAL	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER
GPOS	155	NATIONAL	NATIONAL LIBRARY OF MEDICINE CALL NUMBER
GPOS	133	NATURE	NATURE OF CONTENTS CODE
NASA	233	NON-GOVERNMENT	ACCESS LEVEL - NON-GOVERNMENT - BLOCK 32
GPOS	177	NOTE	#RITH# NOTE
NASA	278	NOTE	ANALYTIC NOTE - BANN
NTIS	303	NOTE	AVAILABILITY NOTE
GPOS	179	NOTE	BIBLIOGRAPHY/DISCOGRAPHY NOTE
GPOS	180	NOTE	CONTENTS NOTE (FORMATTED)
OTIC	050	NOTE	DESCRIPTIVE NOTE
GPOS	178	NOTE	DISSERTATION NOTE
DOES	017	NOTE	DROP NOTE
GPOS	185	NOTE	FUNDING INFORMATION NOTE
GPOS	176	NOTE	GENERAL NOTE
NASA	264	NOTE	LANGUAGE NOTE - BLGN
GPOS	181	NOTE	LIMITED USE/RESTRICTIONS NOTE
GPOS	186	NOTE	LOCAL NOTE
NASA	269	NOTE	MISCELLANEOUS NOTE - BMCN
DOES	032	NOTE	NTIS NOTE
GPOS	184	NOTE	PHOTOREPRODUCTION NOTE
NASA	265	NOTE	PRESENTATION NOTE - BPRS
NASA	259	NOTE	PRIMARY NOTE - BPRM
NASA	262	NOTE	REPRINT NOTE - BRPR
GPOS	183	NOTE	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE
NASA	268	NOTE	SUPPLEMENT NOTE - BSUP
OTIC	062	NOTE	SUPPLEMENTARY NOTE
NTIS	289	NOTE	TITLE NOTE

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	263	NOTE	TRANSLATION NOTE - QTRA
NTIS	307	NOTES	HIGHLIGHTS NOTES
NASA	266	NOTES	SPECIAL PUBLICATION NOTES - QSPB
NTIS	302	NOTES	SUPPLEMENTARY NOTES
NASA	238	NTIS	NTIS HARDCOPY AVAILABLE - BLOCK 37
NTIS	283	NTIS	NTIS IN-HOUSE CONTROL CODES
NASA	239	NTIS	NTIS MICROFICHE AVAILABLE - BLOCK 37
DOES	032	NTIS	NTIS NOTE
DTIC	045	NTIS	NTIS PRICE
NTIS	284	NTIS	NTIS PRICES
NTIS	282	NTIS	NTIS SUBJECT CATEGORY CODES
DTIC	042	NUMBER	ACCESSION NUMBER
NTIS	281	NUMBER	ACCESSION NUMBER
NASA	245	NUMBER	ANALYTIC PRIMARY - BLOCK 44/NUMBER - BLOCK 42
NASA	246	NUMBER	ANALYTIC SUBSIDIARY - BLOCK 44/NUMBER - BLOCK 42
DOES	010	NUMBER	CONTRACT NUMBER
DTIC	055	NUMBER	CONTRACT OR GRANT NUMBER
DTIC	056	NUMBER	CONTRACT OR GRANT NUMBER
NASA	249	NUMBER	CONTRACT/GRANT NUMBER - QCNT
GPOS	111	NUMBER	CONTROL NUMBER
GPOS	158	NUMBER	DEWEY DECIMAL CLASSIFICATION NUMBER
DOES	001	NUMBER	FILE NUMBER
GPOS	159	NUMBER	GOVERNMENT DOCUMENT CLASSIFICATION NUMBER
GPOS	157	NUMBER	GPO ITEM NUMBER
DTIC	084	NUMBER	IAC REPORT NUMBER
DOES	028	NUMBER	IMIS TEMPORARY RECORD NUMBER
GPOS	195	NUMBER	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)
NASA	206	NUMBER	ISSUE NUMBER - BLOCK 07
GPOS	144	NUMBER	LC CARD NUMBER
GPOS	152	NUMBER	LIBRARY OF CONGRESS CALL NUMBER
NTIS	300	NUMBER	MONITOR AGENCY NUMBER
GPOS	156	NUMBER	NATIONAL AGRICULTURAL LIBRARY CALL NUMBER
GPOS	155	NUMBER	NATIONAL LIBRARY OF MEDICINE CALL NUMBER
NASA	270	NUMBER	NUMBER OF VOLUMES IN SET - QVOL
DOES	008	NUMBER	PRIMARY REPORT NUMBER
DTIC	057	NUMBER	RDT&E PROJECT NUMBER
DTIC	058	NUMBER	RDT&E TASK NUMBER
GPOS	160	NUMBER	REPORT NUMBER
NASA	248	NUMBER	REPORT NUMBER(S) - QRPN
DOES	009	NUMBER	SECONDARY REPORT NUMBER
DTIC	076	NUMBER	SERIAL NUMBER/SOURCE SERIES
DTIC	054	NUMBER	SOURCE SERIES/REPORT NUMBER
GPOS	196	NUMBER	STANDARD TECHNICAL REPORT NUMBER (STRN)
GPOS	198	NUMBER	STOCK NUMBER

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	201	NUMBER	TEMPORARY NUMBER - BLOCK 01
DOES	002	NUMBER	TIC ITEM IDENTIFICATION NUMBER
DOES	011	NUMBER	TRAC NUMBER
NTIS	295	NUMBERS	CONTRACT OR GRANT NUMBERS
NTIS	296	NUMBERS	CONTRACT OR GRANT NUMBERS
NTIS	297	NUMBERS	PROJECT NUMBERS
NTIS	294	NUMBERS	REPORT NUMBERS
NTIS	298	NUMBERS	TASK NUMBERS
GPOS	153	OFFPRINT	COPY, ISSUE, OFFPRINT STATEMENT
DTIC	067	OPEN-ENDED	IDENTIFIERS AND OPEN-ENDED TERMS
DTIC	068	OPEN-ENDED	IDENTIFIERS AND OPEN-ENDED TERMS CLASSIFICATION
NASA	215	ORIGIN	COUNTRY OF ORIGIN - BLOCK 17
NASA	226	ORIGIN	MICROFICHE SOURCE ORIGIN - BLOCK 25
DOES	022	ORIGIN	REPORT ORIGIN
NASA	252	ORIGINAL	FORM OF ORIGINAL INPUT - @FOI
GPOS	116	ORIGINAL	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.
NASA	232	OTHER	ACCESS LEVEL - OTHER GOVERNMENT - BLOCK 31
NASA	267	OTHER	OTHER ANNOUNCEMENTS - @OTA
NASA	223	OVERRIDE	COPYRIGHT OVERRIDE - BLOCK 22
GPOS	173	PAGE	ITEM COUNT/PAGE COUNT
NASA	211	PAGE	PAGINATION (PAGE COUNT) - BLOCK 19
DOES	013	PAGES	PAGES (M)
DTIC	053	PAGINATION	PAGINATION
NTIS	292	PAGINATION	PAGINATION
NASA	211	PAGINATION	PAGINATION (PAGE COUNT) - BLOCK 19
GPOS	182	PERIOD	TYPE OF REPORT AND PERIOD COVERED
GPOS	194	PERSONAL	ADDED ENTRY - PERSONAL NAME
GPOS	161	PERSONAL	MAIN ENTRY - PERSONAL NAME
DTIC	051	PERSONAL	PERSONAL AUTHOR
DOES	006	PERSONAL	PERSONAL AUTHOR (M)
NASA	258	PERSONAL	PERSONAL AUTHOR AFFILIATION - @PAA
NASA	257	PERSONAL	PERSONAL AUTHOR TYPE - @PAT
NTIS	290	PERSONAL	PERSONAL AUTHOR(S)
GPOS	187	PERSONAL	SUBJECT ADDED ENTRY - PERSONAL NAME
GPOS	184	PHOTOREPRODUCTIO	PHOTOREPRODUCTION NOTE
GPOS	123	PHYSICAL	BASE OF FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 12,
GPOS	120	PHYSICAL	COLOR, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 9.
GPOS	118	PHYSICAL	DIMENSIONS (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 4.
GPOS	121	PHYSICAL	EMULSION ON FILM (MICROFORMS), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 10.
GPOS	114	PHYSICAL	GENERAL MATERIAL DESIGNATION (GMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 0.
GPOS	122	PHYSICAL	GENERATION, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 11.
GPOS	116	PHYSICAL	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.
GPOS	172	PHYSICAL	PHYSICAL DESCRIPTION (AACR2)
GPOS	113	PHYSICAL	PHYSICAL DESCRIPTION FIXED FIELD

ORG	PAGE	KEYWORD	DATA ELEMENT
GPOS	117	PHYSICAL	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3,
GPOS	119	PHYSICAL	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8,
GPOS	115	PHYSICAL	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1,
DOES	019	PLACE	CONFERENCE PLACE
NASA	260	PLACE	PLACE OF PUBLICATION - @PCP
GPOS	117	POLARITY,	POLARITY, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 3,
GPOS	105	PORTION,	LENGTH OF LENGTH-OF-FIELD PORTION, LEADER, BYTE 20,
GPOS	107	PORTION,	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21,
GPOS	108	PORTION,	LENGTH OF THE IMPLEMENTATION-DEFINED PORTION, LEADER, BYTE 22,
DTIC	064	POSTING	POSTING TERMS/DESCRIPTORS
DTIC	065	POSTING	POSTING TERMS/DESCRIPTORS
NASA	229	PREFIX	MICROFICHE CODE PREFIX - BLOCK 23
NASA	240	PREPARATION	ABSTRACT PREPARATION - BLOCK 38
NASA	265	PRESENTATION	PRESENTATION NOTE - @PRS
DOES	014	PRICE	AVAILABILITY - PRICE
DTIC	045	PRICE	NTIS PRICE
NTIS	289	PRICES	NTIS PRICES
NASA	273	PRICING	SALES AGENCY AND PRICING - @SAP
NASA	245	PRIMARY	ANALYTIC PRIMARY - BLOCK 54/NUMBER - BLOCK 42
NTIS	293	PRIMARY	PRIMARY DESCRIPTION (SET)
NASA	259	PRIMARY	PRIMARY NOTE - @PRM
DOES	008	PRIMARY	PRIMARY REPORT NUMBER
DOES	007	PRIMARY	PRIMARY TITLE (M)
GPOS	129	PRODUCTION	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE
NTIS	297	PROJECT	PROJECT NUMBERS
DTIC	057	PROJECT	RDT&E PROJECT NUMBER
DOES	040	PROPOSED	INIS PROPOSED DESCRIPTORS
GPOS	135	PUBLICATION	CONFERENCE PUBLICATION INDICATOR
DOES	027	PUBLICATION	COUNTRY OF PUBLICATION
NASA	216	PUBLICATION	COUNTRY OF PUBLICATION - BLOCK 17
GPOS	129	PUBLICATION	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE
GPOS	134	PUBLICATION	GOVERNMENT PUBLICATION CODE
NASA	260	PUBLICATION	PLACE OF PUBLICATION - @POP
NASA	202	PUBLICATION	PUBLICATION DATE - BLOCK 02
NASA	266	PUBLICATION	SPECIAL PUBLICATION NOTES - @SPB
GPOS	126	PUBLICATION	TYPE OF PUBLICATION DATE CODE
NASA	261	PUBLISHER	PUBLISHER - @PUB
NASA	241	QUALIFICATION	ABSTRACT QUALIFICATION - BLOCK 39
GPOS	119	RATIO,	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8,
DTIC	057	RDT&E	RDT&E PROJECT NUMBER
DTIC	058	RDT&E	RDT&E TASK NUMBER
DTIC	089	REASON	CLASSIFICATION EXTENSION REASON
NASA	210	RECEIPT	RECEIPT DATE - BLOCK 13
NASA	207	RECEIPT	RECEIPT TYPE - BLOCK 08

ORG	PAGE	KEYWORD	DATA ELEMENT
DTIC	074	RECLASSIFICATION	REGRADE CATEGORY/RECLASSIFICATION CODE
GPOS	105	RECORD	ENTRY MAP (MAP OF RECORD DIRECTORY ENTRIES), LEADER, BYTES 20-23.
DOES	028	RECORD	INIS TEMPORARY RECORD NUMBER
GPOS	093	RECORD	LOGICAL RECORD LENGTH, LEADER, BYTES 0-4.
DTIC	044	RECORD	MACHINE RECORD CLASSIFICATION
GPOS	142	RECORD	MODIFIED RECORD CODE
GPOS	110	RECORD	RECORD DIRECTORY
GPOS	094	RECORD	RECORD STATUS, LEADER, BYTE 5.
GPOS	096	RECORD,	TYPE OF RECORD, LEADER, BYTE 6.
GPOS	119	REDUCTION	REDUCTION RATIO, PHYSICAL DESCRIPTION FIXED FIELD, BYTES 5-8.
NASA	243	REFERENCES	REFERENCES - BLOCK 41
DTIC	074	REGRADE	REGRADE CATEGORY/RECLASSIFICATION CODE
NASA	204	RELEASE	DOCUMENT RELEASE FORM - BLOCK 04
DTIC	090	REMOTE	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
DTIC	084	REPORT	IAC REPORT NUMBER
DOES	008	REPORT	PRIMARY REPORT NUMBER
NASA	220	REPORT	REPORT CLASS (A) - BLOCK 21
NASA	221	REPORT	REPORT CLASS (B) - BLOCK 21
DTIC	061	REPORT	REPORT CLASSIFICATION
DTIC	052	REPORT	REPORT DATE
NTIS	291	REPORT	REPORT DATE
GPOS	160	REPORT	REPORT NUMBER
NASA	248	REPORT	REPORT NUMBER(S) - GRPN
NTIS	294	REPORT	REPORT NUMBERS
DOES	022	REPORT	REPORT ORIGIN
DOES	009	REPORT	SECONDARY REPORT NUMBER
DTIC	054	REPORT	SOURCE SERIES/REPORT NUMBER
GPOS	146	REPORT	STANDARD TECHNICAL REPORT NUMBER (STRN)
GPOS	182	REPORT	TYPE OF REPORT AND PERIOD COVERED
GPOS	129	REPOSITORY	COUNTRY OF PUBLICATION OR PRODUCTION/REPOSITORY CODE
NASA	262	REPRINT	REPRINT NOTE - GRPR
GPOS	132	REPRODUCTION	FORM OF REPRODUCTION CODE
NASA	222	REPRODUCTION	MICROFICHE REPRODUCTION AUTHORIZATION - BLOCK 22
GPOS	116	REPRODUCTION	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.
NASA	219	REPRODUCTION	REPRODUCTION AUTHORIZED (Y OR N) - BLOCK 20
NASA	271	RESEARCH	SUPPORTING RESEARCH AND TECHNOLOGY CODE - GSRT
GPOS	181	RESTRICTIONS	LIMITED USE/RESTRICTIONS NOTE
DTIC	088	REVIEW	DECLASSIFICATION REVIEW DATE
GPOS	166	ROMANIZED	ROMANIZED TITLE
NTIS	290	S	PERSONAL AUTHOR(S)
NASA	248	S	REPORT NUMBER(S) - GRPN
NASA	273	SALES	SALES AGENCY AND PRICING - GSAP
DTIC	090	SBI	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
GPOS	183	SCOPE,	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE

ORG	PAGE	KEYWORD	DATA ELEMENT
DOES	009	SECONDARY	SECONDARY REPORT NUMBER
NASA	254	SECONDARY	SECONDARY SOURCE CODE - aSSC
NASA	234	SECURITY	DOCUMENT SECURITY CLASSIFICATION - BLOCK 33
NASA	235	SECURITY	TITLE SECURITY CLASSIFICATION - BLOCK 34
DOES	023	SELECTED	FILE SELECTED FOR
DTIC	074	SERIAL	SERIAL NUMBER/SOURCE SERIES
NTIS	312	SERIALS	SERIALS
DTIC	060	SERIES	MONITOR SERIES
NASA	208	SERIES	NASA FORMAL SERIES - BLOCK 09
DTIC	074	SERIES	SERIAL NUMBER/SOURCE SERIES
GPOS	199	SERIES	SERIES ADDED ENTRY - CORPORATE NAME/TITLE
GPOS	200	SERIES	SERIES ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	174	SERIES	SERIES STATEMENT - TITLE (TRACED)
GPOS	175	SERIES	SERIES UNTRACED OR TRACED DIFFERENTLY
DTIC	058	SERIES	SOURCE SERIES/REPORT NUMBER
NTIS	287	SET	ITEM DESCRIPTION(SET)
NASA	270	SET	NUMBER OF VOLUMES IN SET - BVOL
NTIS	293	SET	PRIMARY DESCRIPTION (SET)
DTIC	090	SITE	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
GPOS	115	SMD	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1.
GPOS	149	SOURCE	CATALOGING SOURCE
GPOS	143	SOURCE	CATALOGING SOURCE CODE
NASA	203	SOURCE	CORPORATE SOURCE - BLOCK 03
NTIS	285	SOURCE	CORPORATE SOURCE
NASA	272	SOURCE	CORPORATE SOURCE MONITOR - aCSM
NASA	253	SOURCE	CORPORATE SOURCE SUPPLEMENT - aCSS
NASA	224	SOURCE	MICROFICHE SOURCE ORIGIN - BLOCK 25
NASA	254	SOURCE	SECONDARY SOURCE CODE - aSSC
DTIC	076	SOURCE	SERIAL NUMBER/SOURCE SERIES
DTIC	077	SOURCE	SOURCE CODE
GPOS	171	SOURCE	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS
DOES	025	SOURCE	SOURCE OF BIBLIOGRAPHIC INFORMATION
DTIC	054	SOURCE	SOURCE SERIES/REPORT NUMBER
DTIC	073	SPECIAL	SPECIAL CODES
NASA	237	SPECIAL	SPECIAL HANDLING - BLOCK 36
NASA	266	SPECIAL	SPECIAL PUBLICATION NOTES - aSPB
GPOS	115	SPECIFIC	SPECIFIC MATERIAL DESIGNATION (SMD), PHYSICAL DESCRIPTION FIXED FIELD, BYTE 1.
DOES	036	SPLITS	SUBJECT DESCRIPTORS, SPLITS
GPOS	145	STANDARD	INTERNATIONAL STANDARD BOOK NUMBER (ISBN)
GPOS	146	STANDARD	STANDARD TECHNICAL REPORT NUMBER (STRN)
GPOS	107	STARTING-CHARACT	LENGTH OF STARTING-CHARACTER-POSITION PORTION, LEADER, BYTE 21.
GPOS	153	STATEMENT	COPY, ISSUE, OFFPRINT STATEMENT
GPOS	168	STATEMENT	EDITION STATEMENT
GPOS	170	STATEMENT	IMPRINT STATEMENT (AACR2)

ORG	PAGE	KEYWORD	DATA ELEMENT
GPOS	174	STATEMENT	SERIES STATEMENT - TITLE (TRACED)
GPOS	167	STATEMENT	TITLE STATEMENT
DTIC	063	STATEMENTS	LIMITATIONS (ALPHA) - DISTRIBUTION AVAILABILITY STATEMENTS
GPOS	074	STATUS,	RECORD STATUS, LEADER, BYTE 5.
GPOS	148	STOCK	STOCK NUMBER
GPOS	146	STRN	STANDARD TECHNICAL REPORT NUMBER (STRN)
DOES	014	SUBDISTRIBUTION	SUBDISTRIBUTION CATEGORY
GPOS	100	SUBFIELD	SUBFIELD CODE COUNT, LEADER, BYTE 11.
NASA	245	SUBJECT	ANALYTIC SUBSIDIARY SUBJECT CODE - BLOCK 43
DTIC	043	SUBJECT	DOD-MODIFIED COSATI SUBJECT FIELD AND GROUP CODES
DTIC	086	SUBJECT	IAC SUBJECT TERMS
NASA	276	SUBJECT	MAJOR SUBJECT TERMS - BMJS
NASA	277	SUBJECT	MINOR SUBJECT TERMS - BMNS
NTIS	282	SUBJECT	NTIS SUBJECT CATEGORY CODES
GPOS	189	SUBJECT	SUBJECT ADDED ENTRY - CONFERENCE OR MEETING
GPOS	188	SUBJECT	SUBJECT ADDED ENTRY - CORPORATE NAME
GPOS	192	SUBJECT	SUBJECT ADDED ENTRY - GEOGRAPHIC NAME
GPOS	187	SUBJECT	SUBJECT ADDED ENTRY - PERSONAL NAME
GPOS	191	SUBJECT	SUBJECT ADDED ENTRY - TOPICAL HEADING
GPOS	193	SUBJECT	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING
GPOS	190	SUBJECT	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING
DOES	024	SUBJECT	SUBJECT CATEGORIES
DOES	037	SUBJECT	SUBJECT DESCRIPTOR COUNT
DOES	038	SUBJECT	SUBJECT DESCRIPTORS, GENERAL
DOES	036	SUBJECT	SUBJECT DESCRIPTORS, SPLITS
NASA	242	SUBJECT	SUBJECT FIELDS - BLOCK 40
NASA	274	SUBJECT	SUBJECT GROUPS - UCSC
GPOS	171	SUBSCRIPTION	SOURCE FOR ACQUISITION/SUBSCRIPTION ADDRESS
NASA	246	SUBSIDIARY	ANALYTIC SUBSIDIARY - BLOCK 44/NUMBER - BLOCK 42
NASA	249	SUBSIDIARY	ANALYTIC SUBSIDIARY SUBJECT CODE - BLOCK 43
NASA	225	SUFFIX	MICROFICHE CODE SUFFIX - BLOCK 24
GPOS	183	SUMMARY,	SUMMARY, ABSTRACT, SCOPE, ETC. NOTE
NASA	253	SUPPLEMENT	CORPORATE SOURCE SUPPLEMENT - BCSS
NASA	268	SUPPLEMENT	SUPPLEMENT NOTE - BSUP
DTIC	062	SUPPLEMENTARY	SUPPLEMENTARY NOTE
NTIS	302	SUPPLEMENTARY	SUPPLEMENTARY NOTES
NASA	255	SUPPLEMENTARY	TITLE SUPPLEMENTARY - BTLS
NASA	230	SUPPORT	FINANCIAL SUPPORT - BLOCK 29
NASA	271	SUPPORTING	SUPPORTING RESEARCH AND TECHNOLOGY CODE - BSRT
DTIC	090	SYMBOL	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
DTIC	088	TASK	RDT&E TASK NUMBER
NTIS	278	TASK	TASK NUMBERS
GPOS	146	TECHNICAL	STANDARD TECHNICAL REPORT NUMBER (STRN)
NASA	271	TECHNOLOGY	SUPPORTING RESEARCH AND TECHNOLOGY CODE & BSRT

ORG	PAGE	KEYWORD	DATA ELEMENT
DOES	028	TEMPORARY	INIS TEMPORARY RECORD NUMBER
NASA	201	TEMPORARY	TEMPORARY NUMBER - BLOCK 01
DTIC	090	TERMINAL	REMOTE TERMINAL (SBI) SITE HOLDINGS SYMBOL
DOES	039	TERMS	DESCRIPTOR UPPOSTED TERMS
DTIC	086	TERMS	IAC SUBJECT TERMS
DTIC	067	TERMS	IDENTIFIERS AND OPEN-ENDED TERMS
DTIC	068	TERMS	IDENTIFIERS AND OPEN-ENDED TERMS CLASSIFICATION
NASA	276	TERMS	MAJOR SUBJECT TERMS - BMJS
NASA	277	TERMS	MINOR SUBJECT TERMS - BMNS
DTIC	064	TERMS	POSTING TERMS/DESCRIPTORS
DTIC	065	TERMS	POSTING TERMS/DESCRIPTORS
DOES	002	TIC	TIC ITEM IDENTIFICATION NUMBER
DOES	036	TIC	TIC UTILIZATION
GPOS	112	TIME	DATE AND TIME OF LATEST TRANSACTION
GPOS	196	TITLE	ADDED ENTRY - TITLE TRACED DIFFERENTLY
GPOS	197	TITLE	ADDED ENTRY - UNIFORM TITLE HEADING
DTIC	048	TITLE	CLASSIFIED TITLE
DOES	01A	TITLE	CONFERENCE TITLE
GPOS	169	TITLE	MAIN ENTRY - UNIFORM TITLE HEADING
DOES	007	TITLE	PRIMARY TITLE (M)
GPOS	1-6	TITLE	ROMANIZED TITLE
GPOS	199	TITLE	SERIES ADDED ENTRY - CORPORATE NAME/TITLE
GPOS	200	TITLE	SERIES ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	174	TITLE	SERIES STATEMENT - TITLE (TRACED)
GPOS	190	TITLE	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING
NTIS	286	TITLE	TITLE
NASA	251	TITLE	TITLE (UNCLASSIFIED) - BUTL
NTIS	310	TITLE	TITLE ANNOTATION
DOES	031	TITLE	TITLE AUGMENTATION
DTIC	049	TITLE	TITLE CLASSIFICATION
NASA	275	TITLE	TITLE EXTENSION - BTXT
NTIS	289	TITLE	TITLE NOTE
NASA	236	TITLE	TITLE SECURITY CLASSIFICATION - BLOCK 34
GPOS	167	TITLE	TITLE STATEMENT
NASA	255	TITLE	TITLE SUPPLEMENTARY - BTLS
NASA	254	TITLE	UNCLASSIFIED FOREIGN TITLE - BUFT
DTIC	047	TITLE	UNCLASSIFIED TITLE
GPOS	165	TITLE	UNIFORM TITLE
GPOS	191	TOPICAL	SUBJECT ADDED ENTRY - TOPICAL HEADING
DOES	011	TRAC	TRAC NUMBER
GPOS	196	TRACED	ADDED ENTRY - TITLE TRACED DIFFERENTLY
GPOS	174	TRACED	SERIES STATEMENT - TITLE (TRACED)
GPOS	173	TRACED	SERIES UNTRACED OR TRACED DIFFERENTLY
GPOS	112	TRANSACTION	DATE AND TIME OF LATEST TRANSACTION

ORG	PAGE	KEYWORD	DATA ELEMENT
NASA	217	TRANSLATED	TRANSLATED DOCUMENT - BLOCK 18
NASA	262	TRANSLATION	TRANSLATION NOTE - BTRA
DTIC	085	TYPE	IAC DOCUMENT TYPE AND LOCATION CODE
DOES	029	TYPE	INIS TYPE
NASA	357	TYPE	PERSONAL AUTHOR TYPE - BPAT
NASA	207	TYPE	RECEIPT TYPE - BLOCK 08
DTIC	083	TYPE	TYPE CODE
DOES	003	TYPE	TYPE OF ITEM
CPOS	126	TYPE	TYPE OF PUBLICATION DATE CODE
GPOS	096	TYPE	TYPE OF RECORD, LEADER, BYTE 6.
GPOS	182	TYPE	TYPE OF REPORT AND PERIOD COVERED
NASA	251	UNCLASSIFIED	TITLE (UNCLASSIFIED) - BUTL
NASA	256	UNCLASSIFIED	UNCLASSIFIED FOREIGN TITLE - BUFT
DTIC	047	UNCLASSIFIED	UNCLASSIFIED TITLE
GPOS	193	UNCONTROLLED	SUBJECT ADDED ENTRY - UNCONTROLLED HEADING
GPOS	109	UNDEFINED	UNDEFINED CHARACTER, LEADER, BYTE 23.
GPOS	197	UNIFORM	ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	164	UNIFORM	MAIN ENTRY - UNIFORM TITLE HEADING
GPOS	200	UNIFORM	SERIES ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	190	UNIFORM	SUBJECT ADDED ENTRY - UNIFORM TITLE HEADING
GPOS	165	UNIFORM	UNIFORM TITLE
GPOS	175	UNTRACED	SERIES UNTRACED OR TRACED DIFFERENTLY
DOES	039	UPPOSTED	DESCRIPTOR UPPOSTED TERMS
GPOS	181	USE	LIMITED USE/RESTRICTIONS NOTE
DOES	035	UTILIZATION	TIC UTILIZATION
GPOS	116	VERSUS	ORIGINAL VERSUS REPRODUCTION ASPECT, PHYSICAL DESCRIPTION FIXED FIELD, BYTE 2.
NTIS	200	VOLUME	JOURNAL VOLUME AND ISSUE CODES
NASA	270	VOLUMES	NUMBER OF VOLUMES IN SET - BVOL
NASA	218	Y	COPYRIGHTED (Y OR N) - BLOCK 19
NASA	219	Y	REPRODUCTION AUTHORIZED (Y OR N) - BLOCK 20